

WO  
1  
A849s  
1943

# MILITARY SURGEONS

PHILADELPHIA

OCTOBER 21 to 23, 1943





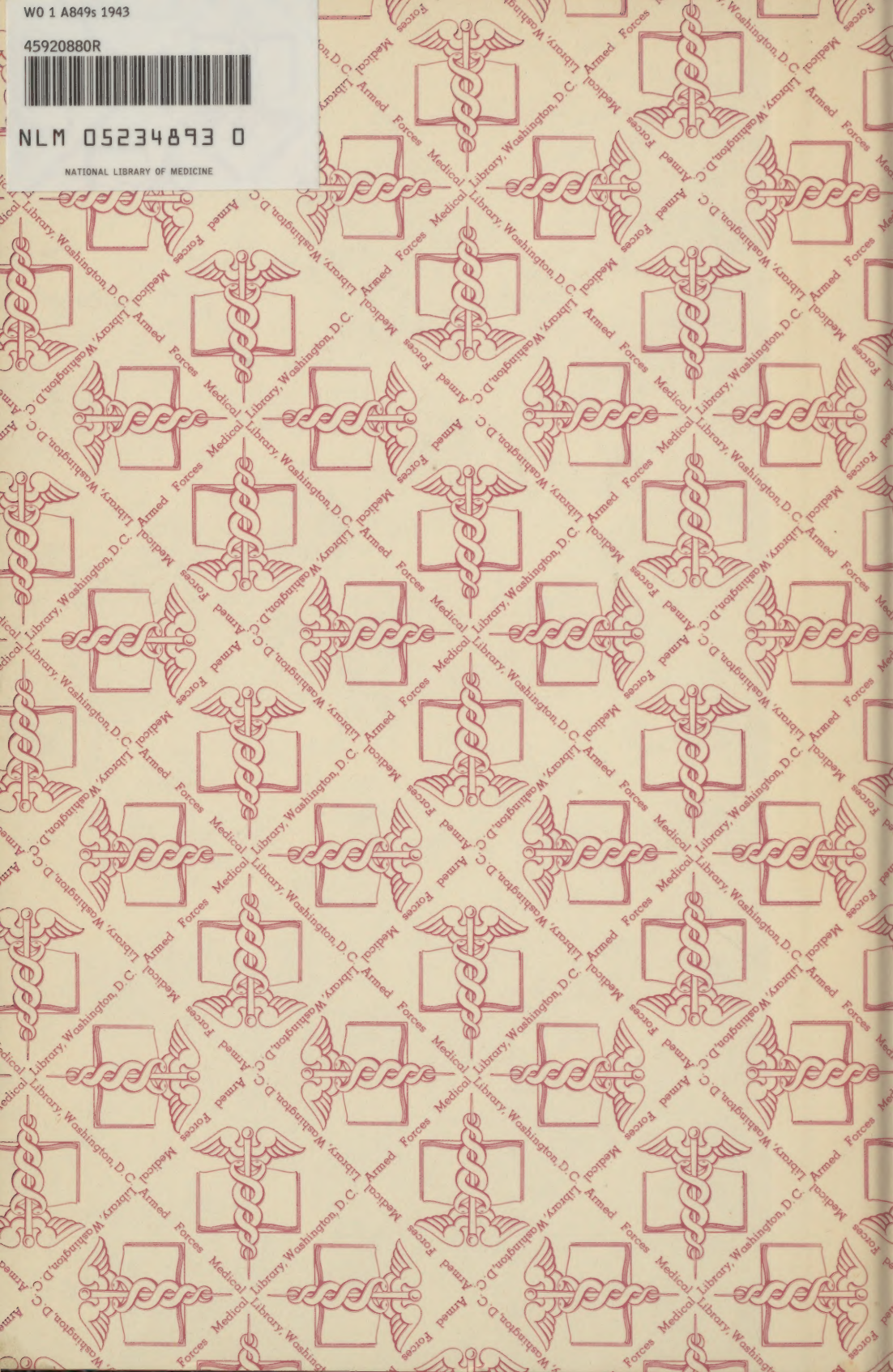
WO 1 A849s 1943

45920880R

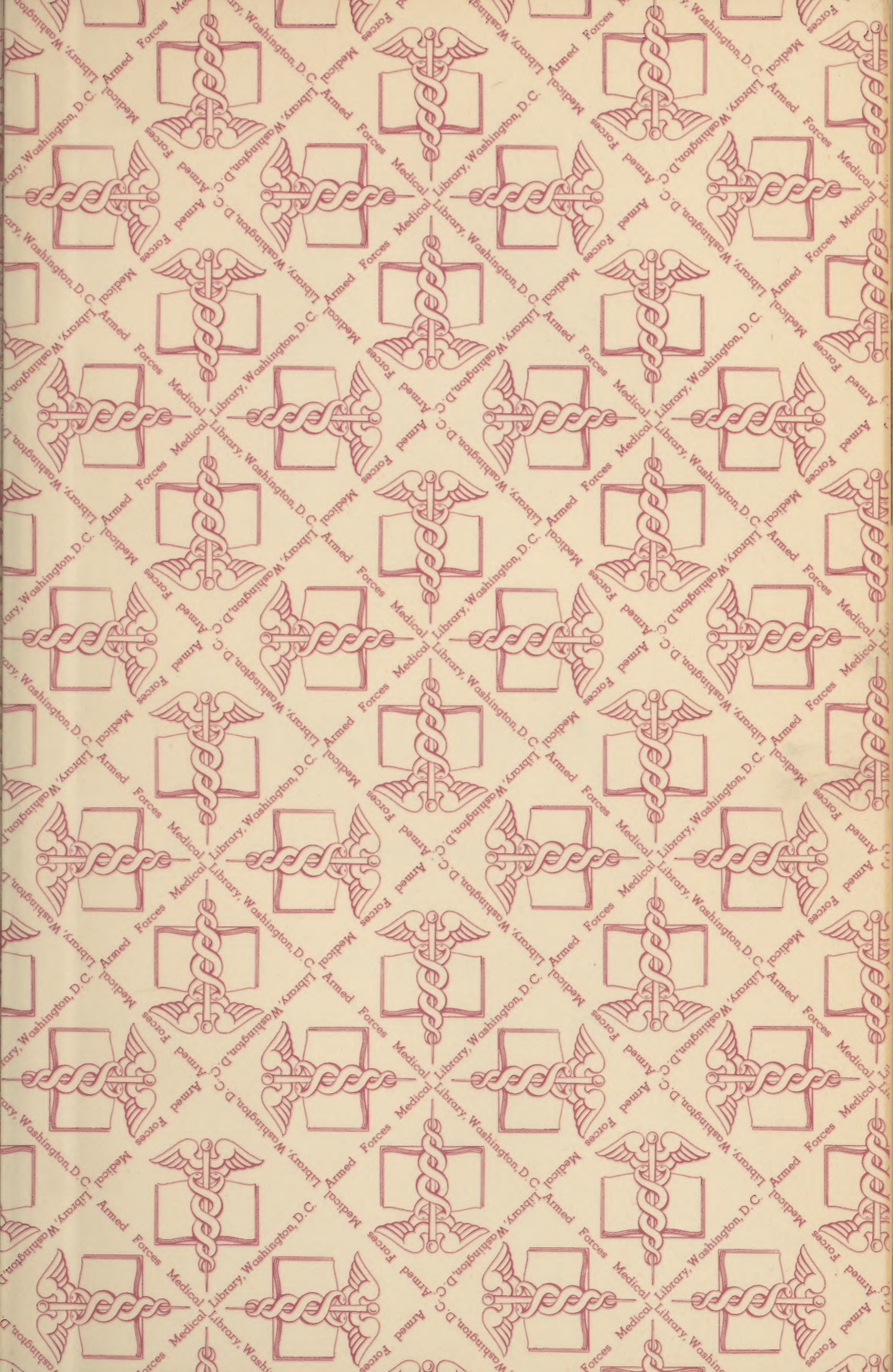


NLM 05234893 0

NATIONAL LIBRARY OF MEDICINE













**Dedication**  
to  
America's Men and Women  
of  
Medicine  
who have given their lives in the cause  
of  
Freedom

WO

1

A849s

1943

c.1

ARMED FORCES MEDICAL LIBRARY  
WASHINGTON, D. C.

SYMPOSIUM  
ON WAR MEDICINE

*51<sup>st</sup> Annual Meeting*

ASSOCIATION OF MILITARY SURGEONS

OF THE UNITED STATES

OCTOBER 21, 22, 23, 1943

BELLEVUE-STRATFORD HOTEL

PHILADELPHIA





With confidence in our armed forces—with the unbounding determination of our people—we will gain the inevitable triumph—so help us God...

*Franklin D. Roosevelt*

DECEMBER 8, 1941



## GREETINGS

**I**t is most appropriate, during this global conflict, that the representatives of the uniformed Federal Medical Services assemble at this Convention for a free and frank interchange of ideas on the new developments and recent methods for the alleviation of suffering and the repair of injuries of those wounded in this "epidemic of trauma"—an apt medical diagnosis of war. It is hoped that we can help one another to gain a broader vision of the mission of medical men in these times, and greater knowledge of the scientific developments and discoveries of our profession.



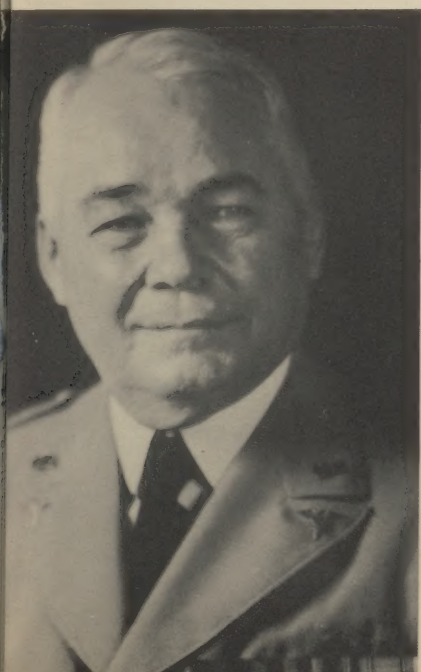
REAR ADMIRAL W. L. MANN (MC),  
U. S. NAVY

To those who have helped sustain and support the Association in time of peace, it is gratifying to note the readiness of officers recently commissioned to recognize the value of this organization, as indicated by the numerous applications for membership.

It is with these thoughts in my mind that I welcome you to this convention with an open heart, and a hearty greeting.

W. L. MANN, Rear Admiral (MC), U. S. Navy, *President*

## GREETINGS TO OUR MEMBERSHIP



**I**t is with deep satisfaction that I report to you that the Association has attained a membership the highest in its half century of history and that it is still growing.

This happy situation is due to the encouragement of recruitment of the society given by the heads of the Government medical services, to whom our deep appreciation is due.

As editor of *The Military Surgeon* I wish to thank our members for the amount and high quality of the material submitted for publication, and for their expressions of approval and helpful criticism.

JAMES M. PHALEN, *Secretary*

COLONEL JAMES M. PHALEN,  
U. S. ARMY, RET.

# THE SURGEONS GENERAL GREET YOU



REAR ADMIRAL ROSS T. McINTIRE  
(MC) U. S. NAVY



It is with sincere pleasure that I extend the greetings of the Medical Department of the Navy to the members of the Association of Military Surgeons on our 51st annual convention.

This year's meeting holds a special significance in that we have now been at war a sufficient length of time to have learned many lessons in all the fields of medicine that have to do with war. The past year has been one of achievement.

All Men of Medicine may point with pride to what has been done by their fellows in the Armed Services.

It is my hope that the deliberations of this Assembly will bring forth much of constructive value that can be passed on to the men in the field, so that the record of the coming year will be just a little better than the one past.





NEVER before in the history of the world has military medicine faced the challenge confronting it today.

Our task now and for some time in the future is fighting death and disease on a thousand battlefronts in most of the countries of the world, in every climate and against almost every pathogenic bacteria, virus and parasite known to man.

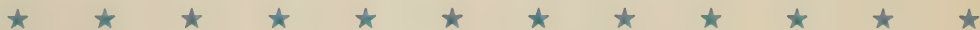
You medical officers have already shown that you can meet this challenge in a noble, unselfish and inspiring way which proves again that the spirit which led you to become physicians will carry us through our greatest of all wars.

You have, without complaint, performed the hard work incident to selecting, training and maintaining the health of the men who make up our Army. You are keeping them fit to fight and inspiring in them that greatest of all wartime necessities—the will to fight. You are giving them emergency care overseas and the definitive care in our hospitals at home which will put them back into a useful place in society.

For most of us there will be no decorations or citations in this war. But for all of us there will be an enduring satisfaction in completing a monumental task as members of the Army Medical Corps.



MAJOR GENERAL NORMAN T. KIRK  
(MC), U. S. ARMY



THE conservation and promotion of good health has ever been the primary objective of the United States Public Health Service. The exigencies of war have spurred us on to even greater activity.

Through the united efforts of medicine and the related sciences, we are meeting the constantly growing demands for medical and public health services.

The record of this teamwork is a proud one. Our accomplishments under the stress of war point to even greater ones in the days of peace to come.

THE meeting this year of the Association of Military Surgeons of the United States is particularly important in that the program provides its members and guests a splendid opportunity to learn, first-hand, from many who have made important contributions to the welfare of those serving with the Armed Forces.

It is a pleasure for me on behalf of the Philadelphia County Medical Society to welcome you to Philadelphia and to extend cordial greetings to your members.

DR. EUGENE P. PENDERGRASS  
*President*



# G R E E T

IT is with very great pleasure that I extend a cordial welcome to the officials and members, distinguished guests and friends attending the Convention of the Association next month in our City. The citizens of Philadelphia are greatly interested in the very important work of the military surgeons. At no other time in our Nation's history have the services of the surgeons of our military forces been so vital to the Country's welfare.

I know that your deliberations will be most interesting and I trust that the outcome of your meeting will be most successful. It is my earnest hope that visitors to the Convention will enjoy themselves in Philadelphia and while here visit places of historic value, cultural and educational institutions and many other places of great interest.

Sincerely yours,

BERNARD SAMUEL  
*Acting Mayor, City of Philadelphia*







**T**HE College of Physicians of Philadelphia extends greetings to the Association of Military Surgeons. In the Hall of the College you will find exhibits of medico-military interest, a wonderful library, an anatomical museum, many historical portraits, and a warm welcome.

**O. H. PERRY PEPPER**  
*President*



# I N G S...

**A**s General Chairman of the 51st annual convention of the Association of Military Surgeons, it gives me great pleasure and honor to welcome the distinguished guests, officers and members of the Association who have come to this great city to attend this momentous meeting in the midst of a global war. I trust that in this Symposium on War Medicine you will derive much benefit from the experiences of medical officers from the combat zones in whose hands the lives of the manhood of our nation are entrusted.

**CAPTAIN JOSEPH A. BIELLO**  
*General Chairman*



# OFFICERS OF THE ASSOCIATION OF MILITARY SURGEONS, 1943



*President*, REAR ADMIRAL WM. L. MANN, M.C., U. S. NAVY  
National Naval Medical Center, Bethesda, Md.

*First Vice-President*, COLONEL LUCIUS A. SALISBURY, M.C., N.Y., N.G.,  
Scarsdale Manor Apt., Scarsdale, N. Y.

*Second Vice-President*, ASSISTANT SURGEON GENERAL WARREN F. DRAPER,  
U. S. Public Health Service, Washington, D. C.

*Third Vice-President*, COLONEL EDGAR ERSKINE HUME, M.C., U. S. ARMY,  
c/o the Association Military Surgeons, Army Med. Museum, Washington, D. C.

*Fourth Vice-President*, COLONEL IRVIN ABELL, MED. RES. U. S. ARMY,  
1002-9 Brown Bldg., Louisville, Ky.

*Fifth Vice-President*, DR. MARTIN L. COOLEY,  
Veterans Administration, Washington, D. C.

*President, Air Service Section*, CAPTAIN J. C. ADAMS, M.C., U. S. NAVY,  
Bureau Medicine and Surgery, Washington, D. C.

*President, Dental Section*, CAPTAIN ALBERT KNOX, D. C., U. S. NAVY,  
Bureau Medicine and Surgery, Washington, D. C.

*President, Veterinary Sec.*, LIEUTENANT COLONEL O. E. MCKIM, VET. RES., U. S. ARMY

*Secretary and Editor*, COLONEL JAMES M. PHALEN, U. S. ARMY, RET.,  
Army Medical Museum, Washington, D. C.

*Assistant Editor*, LIEUTENANT COMMANDER ROBERT C. RANDELL,  
Editor, Naval Medical Bulletin, Bureau Medicine and Surgery, Washington, D. C.

*Executive Secretary*, STUART E. WOMELDORPH,  
Army Medical Museum, Washington, D. C.

## EXECUTIVE COUNCIL

MAJOR GENERAL CHAS. R. REYNOLDS, U. S.  
ARMY RET., Department of Health, Har-  
risburg, Pa.

CAPTAIN W. M. CRAIG, M.C., U.S.N.R.,  
National Naval Medical Center, Bethesda,  
Md.

LIEUTENANT COLONEL CARLETON FOX, DENT.  
RES., U. S. ARMY, David Whitney Build-  
ing, Detroit, Mich.

DR. CHAS. M. GRIFFITH, Veterans Adminis-  
tration, Washington, D. C.

MEDICAL DIRECTOR JAMES P. LEAKE,  
U.S.P.H.S., National Institute of Health,  
Bethesda, Md.

BRIGADIER GENERAL DWIGHT H. MOHR, M.D.,  
N.G., Headquarters, 5th Reg. Armory,  
Baltimore, Md.

REAR ADMIRAL HAROLD W. SMITH, M.C.,  
U. S. NAVY, Bureau Medicine and Surgery,  
Navy Dept., Potomac Annex, 23rd & E  
Sts., N.W., Washington, D. C.



# DISTINGUISHED GUESTS

## AUSTRALIA

SQUADRON LEADER R. V. PRIDMORE, R.A.A.F. Medical Liaison Officer. Representing R.A.A.F. Royal Australian Navy and Royal Australian Army.

## CANADA

BRIGADIER G. B. CHISHOLM, R.C.A.M.C. Director General of Medical Services.

WING COMMANDER L. M. EMARD. Principal Medical Officer, No. 3 Training Command.

LIEUTENANT COLONEL T. A. LEABETTER, R.C.A.M.C.

SURGEON CAPTAIN A. McCALLUM, O.B.E., V.D., M.D. Director General of Medicine Services for the Royal Canadian Navy.

BRIGADIER JONATHAN C. MEAKINS, Deputy Director General of Medical Services, R.C.A.M.S.

WING COMMANDER H. A. PEACOCK. Principal Medical Officer, No. 1 Training Command.

## CHINA

DR. J. HENG LIU, Official Representative of Generalissimo Chiang Kai-shek.

DR. CO TUI, New York University.

## CUBA

MAJOR ANTONY M. RODRIGUEZ DIAZ, Medical Corp National Police, Technical Director and Chief Surgeon of the Police Hospital, Havana, Cuba.

## CZECHOSLOVAKIA

FIRST LIEUTENANT BOHDAN HEJDUK. Medical Service of the Czech Army.

## GREAT BRITAIN

AIR COMMODORE STANFORD CADE, F.R.C.S., MRCP, Consultant in Surgery, RAF.

COLONEL FRANK S. GILLESPIE, R.A.M.C. Liaison Officer, Medical Field Service School, Carlisle Barracks, Pa.

LIEUTENANT GENERAL SIR ALEXANDER HOOD, K.C.B., C.B.E., K.H.P. Director-General Army Medical Services.

MAJOR GENERAL C. MAX PAGE, D.S.O., M.B., F.R.C.S.

AIR MARSHAL SIR HAROLD E. WHITTINGHAM, DBE Honorary Physician to the King, Director General RAF Medical Services.

## GREECE

DR. LEONIDAS LANTZOUNIS, 133 East 58th Street, New York, N. Y.

## IRAN

DR. JEHAN SHAH SALEH. Representing the Iranian Army.

## NETHERLANDS

FIRST CLASS MEDICAL OFFICER M. P. C. BROEKHOFF. Attached to the Royal Netherlands Military Flying School at Jackson.

## NICARAGUA

DR. DESIDERIO ROMANY REYES. At present in Philadelphia.

## NORWAY

CAPTAIN WIESSENER. Norwegian Training Camp at Muskoka, Ontario.

LIEUT. LIAN, Camp Norway, Lunenburg, Nova Scotia.

## PERU

DR. JUAN BENAVIDES DORICH. Lieut. Commander Peruvian Sanitary Corps.

DR. JORGE DIEZ CONSECO GAMBETTA, Captain, Sanitary Corps.

## URUGUAY

DR. RAFAEL CAPURRO. At present in the United States at Columbia University.

## VENEZUELA

FRANK P. CORRIGAN, M.D. American Embassy, Caracas, Venezuela.

## YUGOSLAVIA

CAPTAIN DR. LEO RABINOVIC. Yugoslav Armed Forces.

*Names of those distinguished guests who signified their intention of being present after this program went to press are not included.*

# 51<sup>ST</sup> ANNUAL MEETING



## HONORARY CHAIRMAN

REAR ADMIRAL ROSS T. MCINTIRE  
Surgeon General of the U. S. Navy

## GENERAL CHAIRMAN

CAPTAIN JOSEPH A. BIELLO (MC), U. S. NAVY

## VICE CHAIRMEN

BRIGADIER GENERAL GEORGE F. LULL, U. S. ARMY  
COMMANDER EDWARD L. BORTZ, MC-V (S), U.S.N.R.

## EXECUTIVE COMMITTEE

REAR ADMIRAL RICHARD H. LANING (MC), U. S. NAVY  
CAPTAIN JESSE W. ALLEN (MC), U. S. NAVY  
CAPTAIN C. J. BROWN (MC), U. S. NAVY  
MAJOR F. D. CREEDON, U. S. ARMY  
GILSON COLBY ENGEL, M.D.  
CAPTAIN J. R. KITCHELL, U. S. ARMY RET.  
GEORGE MORRIS PIERSOL, M.D.  
STANLEY P. REIMANN, M.D.  
COMMANDER J. R. TINNEY, U.S.N.R.

## PROGRAM COMMITTEE

REAR ADMIRAL R. H. LANING (MC), U. S. NAVY, *Chairman*  
CAPTAIN C. J. BROWN (MC), U. S. NAVY, *Co-Chairman*  
COLONEL HENRY BEEUWKES (MC), U. S. ARMY, *Army Night*  
COMMANDER EDWARD L. BORTZ, MC-V (S), U.S.N.R., *Radio*  
LOUIS CLERF, M.D., U.S.N.R., *Navy Night*  
THOMAS EDWARDS, M.D., VETS. ADMIN.  
NORMAN INGRAHAM, M.D., U.S.P.H.S., *Forum Lectures*  
EUGENE PENDERGRASS, M.D., *Panels*  
COMMANDER F. A. RICHISON (DC), U.S.N.R., *Motion Pictures*

## RECEPTION COMMITTEE

GEORGE MORRIS PIERSOL, M.D., *Chairman*  
CAPTAIN JESSE W. ALLEN (MC), U. S. NAVY, *Co-Chairman*  
FRANCIS F. BORZELL, M.D.      GEORGE P. MULLER, M.D.  
CHEVALIER JACKSON, M.D.      O. H. PERRY PEPPER, M.D.  
WILLIAM HARVEY PERKINS, M.D.  
A. NEWTON RICHARDS, M.D.  
EDWARD A. STECKER, M.D.





# ASSOCIATION OF MILITARY SURGEONS



## ENTERTAINMENT COMMITTEE

GILSON COLBY ENGEL, M.D., *Chairman*  
JAMES A. BABBITT, M.D.  
MOSES BEHREND, M.D.  
VINCENT DIODATI, M.D.  
HERBERT M. GODDARD, M.D.  
CHARLES B. HOLLIS, M.D.  
EUGENE PENDERGRASS, M.D.  
EARLE RICE, D.D.S.  
BERNARD WIDMANN, M.D.

## SCIENTIFIC EXHIBITS COMMITTEE

STANLEY P. REIMANN, M.D., *Chairman*  
COLONEL J. F. ASH, U. S. ARMY  
CHARLES M. GRIFFITH, M.D., VETS. ADMIN.  
LIEUTENANT EUGENE L. LOZNER (MC), U. S. NAVY

## REGISTRATION COMMITTEE

CAPTAIN J. R. KITCHELL, U.S.A. RET., *Chairman*  
COMMANDER G. U. PILLMORE, MC-V(S), U.S.N.R.  
LIEUTENANT COMMANDER CARL A. SCHLACK (DC), U.S.N.

## PUBLICITY AND PUBLIC RELATIONS COMMITTEE

COMMANDER J. R. TINNEY, U.S.N.R., *Chairman*  
LIEUTENANT COLONEL E. S. MURPHY (MC), U. S. ARMY  
COMMANDER R. C. RANDELL (MC), U.S.N.R.  
LIEUTENANT COLONEL MYER SOLIS-COHEN,  
MED. RES., U. S. ARMY  
LIEUTENANT COMMANDER KENNETH WESTON,  
(MC)-V(S), U.S.N.R.  
LIEUTENANT COMMANDER STEPHEN A. ZIEMAN (MC), U.S.N.R.

## TRANSPORTATION COMMITTEE

MAJOR F. D. CREEDON, U. S. ARMY  
LIEUTENANT COMMANDER S. J. GALLAGHER, U.S.N.R.

## TECHNICAL EXHIBITS

MR. STEVEN K. HERLITZ

## OFFICIAL HOSTESSES

EMERGENCY AID OF PENNSYLVANIA  
NAVY LEAGUE SERVICE



# SYMPOSIUM ON WAR MEDICINE

## *Official Schedule*

OCTOBER 21, 1943

THURSDAY MORNING, 10 A. M.

BALLROOM, BELLEVUE-STRATFORD HOTEL

OPENING SESSION . . . 10 A. M. in the Ballroom, Bellevue-Stratford Hotel

CALL TO ORDER . Captain Joseph A. Biello (MC), U. S. Navy, *General Chairman*

THE STAR SPANGLED BANNER . . . Philadelphia Navy Yard Orchestra

INVOCATION . . . Captain E. W. Davis (ChC.), U. S. Navy

ADDRESSES OF WELCOME . Bernard Samuel, *Mayor of Philadelphia*

Dr. Eugene Pendergrass, *President*, Philadelphia County  
Medical Society

Dr. O. H. Perry Pepper, *President*, Philadelphia College  
of Physicians

### RESPONSE

THE PRESIDENTIAL ADDRESS . . Rear Admiral Wm. L. Mann (MC), U. S. Navy,  
*District Medical Officer*, 13th Naval District

### ADDRESSES OF THE SURGEONS GENERAL

*The Medical Department in Field Service*

Major General Norman T. Kirk (MC), U. S. Army

*Significant Trends in Naval Medicine*

Rear Admiral Ross T. McIntire (MC), U. S. Navy

*Teamwork on the Health Front* . . . Thomas Parran, M.D., U.S.P.H.S.

BUSINESS MEETING . . . 12 Noon, Ballroom

### LUNCHEON FOR OFFICIALS AND DISTINGUISHED GUESTS

BY THE MAYOR OF PHILADELPHIA . . . Burgundy Room, 12.30

*Admission by Ticket*



### THURSDAY AFTERNOON

FORUM LECTURES . . . . .	2 P. M. to 4.30 P. M.
MOTION PICTURES . . . . .	2 P. M. to 4.30 P. M.
TEACHING PANELS . . . . .	4.30 P. M. to 6 P. M.

### THURSDAY EVENING

ARMY NIGHT . . . . .	Ballroom, 8 P. M.
ADDRESS OF THE EVENING . . . . .	Lieutenant General Sir Alexander Hood, K.C.B., C.B.E., K.H.P., <i>Director General Army Medical Service, Great Britain,</i> . . . . . 9 P. M.

### Nation-wide Broadcast

SMOKER GIVEN BY THE DOCTORS AND DENTISTS OF PHILADELPHIA . . . . .	10 P. M.
--	----------

### FRIDAY MORNING, OCTOBER 22

FORUM LECTURES . . . . .	9.30 A. M. to 12.30 P. M.
MOTION PICTURES . . . . .	9.30 A. M. to 12.30 P. M.
TEACHING PANELS . . . . .	12.45 P. M. to 2 P. M.

### FRIDAY AFTERNOON

FORUM LECTURES . . . . .	2 P. M. to 4.30 P. M.
MOTION PICTURES . . . . .	2 P. M. to 4.30 P. M.
TEACHING PANELS . . . . .	4.30 P. M. to 6 P. M.

### FRIDAY EVENING

NAVY NIGHT . . . . .	Ballroom, 6.30 P. M.
ANNUAL DINNER OF THE ASSOCIATION (INFORMAL)	
ADDRESS OF THE EVENING . . . . .	9 P. M., Admiral William Leahy

### Nation-wide Broadcast

### SATURDAY MORNING, OCTOBER 23

FORUM LECTURES . . . . .	9.30 A. M. to 12.30 P. M.
MOTION PICTURES . . . . .	9.30 A. M. to 12.30 P. M.
BUSINESS MEETING . . . . .	12.30 P. M.

All appointments on this program are subject to the demands of war. Highly qualified authorities are available wherever changes may be necessary.

# FORUM LECTURES

*The Rose Garden, 18th Floor of the Bellevue*

**THURSDAY, OCTOBER 21**

**2 P. M. to 3 P. M.**

*Presiding Officer*, REAR ADMIRAL WILLIAM L. MANN (MC), U. S. NAVY, President of the Association.

## **TECHNIQUE OF SELF-PRESERVATION**

CAPTAIN BERTRAM GROESBECK (MC), U. S. NAVY, Medical Officer, U. S. Naval Air Training Center, Pensacola, Fla. Served on U. S. S. Carriers *Yorktown* and *Saratoga*.

## **PHYSIOLOGIC ASPECTS OF HIGH ALTITUDE FLYING**

WALTER BOOTHBY, M.D., *Chairman*, Mayo Aero-Medical Unit; Professor Experimental Metabolism, Mayo Foundation.

## **MEDICAL HIGHLIGHTS IN AFRICA AND ITALY**

BRIGADIER GENERAL HUGH MORGAN (MC), U. S. A., Chief Consultant in Medicine, U. S. Army.

**3 P. M. to 3.30 P. M. INTERMISSION—VISIT EXHIBITS**

**3.30 P. M. to 4.30 P. M.**

*Presiding Officer*, COLONEL LUCIUS A. SALISBURY (MC), NYNG, *First Vice-Pres.*

## **AIR EVACUATION**

LIEUTENANT-COLONEL RICHARD L. MEILING (MC), U. S. ARMY, Chief of the Plans Branch Operations Division, Air Surgeon's Office, Army Air Forces.

## **ANAESTHESIA AT THE FRONT**

MAJOR CHARLES F. MCCUSKEY (MC), U. S. ARMY. Duty December 20, 1941—Letterman General Hospital, San Francisco, Calif.

## **PARACHUTE INJURIES**

CAPTAIN WILLIAM J. TOBIN (MC), U. S. ARMY, Station Hospital, Fort Benning, Ga.



## **FRIDAY, OCTOBER 22**

**9.30 A. M. to 10.30 A. M.**

*Presiding Officer*, ASSISTANT SURGEON GENERAL WARREN F. DRAPER, *Second Vice-President*.

### **EFFECTS OF TRAUMA OF THE ABDOMINAL VISCERA**

CAPTAIN WILLIAM SEAMAN BAINBRIDGE (MC), U. S. N. R., *Past President* of the Association; Member, official mission to Central and South American Republics and islands of the Caribbean.

### **SUPPLYING THE DOCTORS FOR MILITARY NEEDS**

FRANK LAHEY, M.D., *National Chairman*, Procurement and Assignment Service for Medical Services for the Armed Forces; *Chairman*, the Medical Consulting Board to the U. S. Navy; *Past President*, American Medical Association.

### **THE PHYSIOLOGICAL EFFECTS OF HIGH TEMPERATURES**

COLONEL WILLARD MACHLE (MC), U. S. ARMY, Commanding Officer and Director of Armored Medical Research Laboratories, Fort Knox, Ky.

**10.30 A. M. to 11 A. M. INTERMISSION—VISIT EXHIBITS**

**11 A. M. to 12.30 P. M.**

*Presiding Officer*, COLONEL JAMES M. PHALEN, U. S. ARMY, RET.

### **MEDICAL HIGHLIGHTS IN THE SOUTHWEST PACIFIC**

BRIGADIER GENERAL CHARLES HILLMAN (MC), U. S. ARMY, Chief Professional Service, Office of the Surgeon General, U. S. Army.

### **EXERCISE IN PRECIPITATING BENDS AT ALTITUDE OR FOLLOWING DIVING OPERATIONS**

J. F. FULTON, M.D., Professor of Physiology, Yale University Medical School; *Chairman*, Subcommittee on Decompression Sickness, Division of Medical Sciences, National Research Council.

### **MEDICAL STANDARDS IN RELATION TO PERSONNEL SELECTION**

BRIGADIER J. C. MEAKINS, RCAMC, Brigadier and Deputy Director General, Medical Services, Canadian Army.

### **FLIGHT SURGEON**

BRIGADIER GENERAL DAVID N. W. GRANT (MC), U. S. ARMY, Air Surgeon, Headquarters, Army Air Forces, Office of Surgeon General.

### **PROBLEMS OF REHABILITATION**

ALAN GREGG, M.D., Director for the Medical Sciences, Rockefeller Foundation.

## FORUM LECTURES (Continued)

---

### FRIDAY, OCTOBER 22

2 P. M. to 3 P. M.

*Presiding Officer*, CAPTAIN ALBERT KNOX (DC), U. S. NAVY, *President*, Dental Section.

#### BLAST INJURIES

COMMANDER R. H. DRAEGER (MC), U. S. NAVY, Naval Medical Research Institute, National Naval Medical Center, Bethesda, Md. Duty, U. S. S. *California*; also Asiatic Service.

#### AMPHIBIOUS OPERATIONS

CAPTAIN DON S. KNOWLTON (MC), U. S. NAVY, Camp Surgeon, Camp Lejeune, New River, N. C. Action in South Pacific with First Marine Division.

3 P. M. to 3.30 P. M. INTERMISSION—VISIT EXHIBITS

3.30 P. M. to 4.30 P. M.

*Presiding Officer*, COLONEL IRVIN ABELL (MC), U. S. ARMY RES., *Fourth Vice-President*.

#### THE SUBMARINE SAILOR

COMMANDER CHARLES W. SHILLING (MC), U. S. NAVY. Deep Sea Diver. Submarine Force Medical Officer, U. S. S. *S-4* and U. S. S. *S-42*.

#### ARMY FOOT DISABILITIES

CAPTAIN W. H. BURNHAM (MC), U. S. ARMY, Chief Orthopedic Section, Station Hospital, Fort Leonard Wood, Missouri.

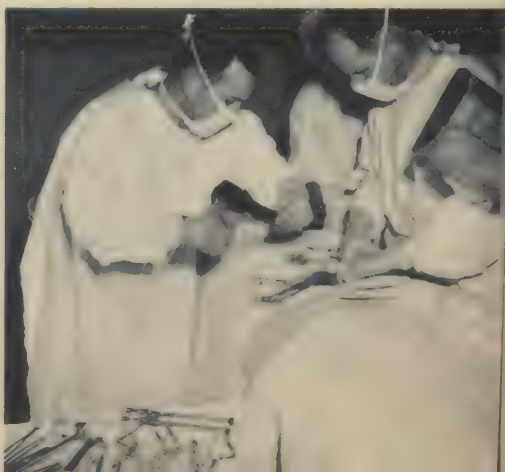
#### CONVERSION OF CRUISER INTO TEMPORARY HOSPITAL SHIP

COMMANDER GERALD W. SMITH (MC), U. S. NAVY, Chief of Medicine, U. S. Naval Hospital, Philadelphia, Pa. Medical Officer of cruiser in Battle of Coral Sea and Battle of Midway that received most of the evacuated casualties of U. S. S. *Lexington* and U. S. S. *Yorktown*.

Operation on American soldier wounded in arms and shoulders by Jap shrapnel, New Guinea



Performing an exploratory laparotomy on soldier who received shell fragments in abdomen, North Africa





## FORUM LECTURES *(Continued)*

---

### SATURDAY, OCTOBER 23

9.30 A. M. to 10.30 A. M.

*Presiding Officer*, DR. MARTIN L. COOLEY, Veterans' Administration, *Fifth Vice-President*.

#### THE SHIPWRECKED

LIEUTENANT P. H. FUTCHER, MC-V(S), U. S. N. R. Flight Surgeon, Naval Medical Research Institute, National Naval Medical Center, Bethesda, Md. Naval Air Station, Pensacola, Fla.

#### TREATMENT OF FRACTURES IN EUROPEAN WAR ZONES

COLONEL R. INKERMANN HARRIS, RCAMC, Consulting Surgeon for Central Canada to Director General of Medical Services.

#### WAR NEUROSES

EDWARD A. STRECKER, M.D., Consultant in Psychiatry, Bureau of Medicine and Surgery, U. S. Navy; Special Consultant, Secretary of War, Army Air Forces; Consultant Mental Hygiene, U. S. Public Health Service. *President*, American Psychiatric Association.

#### 10.30 A. M. to 11 A. M. INTERMISSION—VISIT EXHIBITS

11 A. M. to 12.30 P. M.

*Presiding Officer*, CAPTAIN J. C. ADAMS (MC), U. S. NAVY, *President*, Air Service Section.

#### EFFECTS OF PROLONGED WET AND COLD ON THE EXTREMITIES

COLONEL R. H. PATTERSON (MC), U. S. ARMY, Chief Surgical Branch, Letterman General Hospital, San Francisco.

#### JUNGLE AND DESERT EMERGENCIES

MAJOR J. LEONARD MOORE (MC), U. S. ARMY, Chief Medical Section, Arctic, Desert Tropic Information Center.

#### WARTIME PHYSICAL REHABILITATION

FRANK H. KRUSEN, M.D., Secretary of the Subcommittee on Physical Therapy of the National Research Council; National Consultant in Physical Therapy for Wartime Graduate Medical Meetings.

#### WARTIME EXPERIENCES ABOARD A NAVAL HOSPITAL SHIP

CAPTAIN M. J. ASTON (MC), U. S. NAVY, Commanding Officer U. S. Naval Hospital, NOV Area Norfolk, Virginia; Senior Medical Officer U. S. S. *Solace*, past 21 months.

# TO BE READ IF TIME PERMITS

---

## FATIGUE IN THE FIGHTING MAN

LIEUTENANT COLONEL DAVID B. DILL, Fatigue Laboratory, Harvard University; assistant for product analysis in the research and development branch, Military Planning Division. O.Q.M.G.

## VETERANS' PROBLEMS OF THE PRESENT WAR

BRIGADIER GENERAL FRANK T. HINES, Administrator of Veterans' Affairs, Veterans' Administration, Washington, D. C.

## RE-EVALUATION OF SULFA DRUGS

MAJOR CHAMP LYONS (MC), U. S. ARMY, Secretary of Subcommittee on Surgical Infections, National Research Council, Responsible Investigator of Office of Scientific Research and Development; Halloran General Hospital, Staten Island, New York.

## PLASMA AND PLASMA PROTEINS AS BLOOD SUBSTITUTES

DR. E. J. COHN, Professor of Physical Chemistry, Harvard Medical School.

## RED CELL TRANSFUSION IN THE TREATMENT OF ANEMIA

HOWARD L. ALT, M.D., Assistant Professor of Medicine, Northwestern Medical School, Chicago.

## EMERGENCY DIETS

DR. BERNARD PROCTOR, Chief of Subsistence Section, War Department Army Service Forces, Office of the Quartermaster General.

## REFRIGERATION ANESTHESIA

LIEUTENANT COLONEL I. M. GAGE, Surgical Consultant, Headquarters, 4th Service Command, Atlanta, Ga.

## PNEUMONIA

COLIN M. McLEOD, M.D., Professor of Bacteriology, New York University Medical School.

## LOCAL SHOCK

J. E. M. THOMSON, M.D., Chief of Bone and Joint Department, Bryan Memorial Hospital and St. Elizabeth's Hospital, Lincoln, Nebraska.

## CONVALESCENTS' TRAINING PROGRAM

LIEUTENANT COLONEL HOWARD A. RUSK (MC), U. S. NAVY. Started Convalescents' Training Program, Jefferson Barracks, Missouri; Office of the Air Surgeon, Washington, D. C. Charge of Convalescents' Rehabilitation Training.

## DIETARY MEASURES IN COMBATTING MALARIA

JUAN ITURBE, M.D., Caracas, Venezuela.

## CUTANEOUS LESIONS COMMONLY ENCOUNTERED IN THE COMBAT ZONE

MAJOR MORTIMER J. CANTOR (MC), U. S. NAVY, Chief of Section of Dermatology and Syphilology, 1940 to 1942, Station Hospital, New Jersey; Chief of Section of Dermatology and Allergy, 1943, Station Hospital, New Jersey.





U. S. S. Solace, hospital ship at anchor, with booms rigged.



Wounded lying on stretchers in a barge alongside hospital ship, awaiting transfer up gangway.

Wardroom on hospital ship with nurse in charge.



# TEACHING PANELS

---

*Teaching Panels will be held Thursday and Friday afternoons, convening in the several specified rooms at 4.30 promptly. On Friday, a series of teaching panels has also been scheduled commencing at 12.45 P. M.*

*Each chairman who will be in charge of a panel has been specially selected because of his broad interest and wide experience which qualifies him as an authority. He will open the panel discussion with a 10-minute résumé of the subject, following which written questions will be collected from the audience by aides. These will be handed to the chairman who, in turn, will designate one of the experts on his panel to answer the question.*

*The experts assisting the chairman of each panel have, in the majority of cases, had practical experience in War Medicine at the front or are carrying on important clinical and laboratory investigations in the field of military medicine at leading medical centers of the nation.*

---

## THURSDAY, OCTOBER 21

4.30 to 6 P. M.

### ***Chemotherapy (Pharmacology and Toxicology)***

#### **ROSE GARDEN (18th Floor)**

**DR. CHESTER S. KEEFER**, *Chairman*  
Professor of Medicine, Boston University  
School of Medicine; Chairman of Subcommittee on Chemotherapy on National Research Council.

**DR. RENE DUBOS**  
Professor of Comparative Pathology, Harvard Medical School.

**DR. JOHN S. LOCKWOOD**  
Assistant Professor of Surgery Research  
and Acting Director Harrison Department  
of Surgical Research, U. of Penna.

**DR. E. KENNERLY MARSHALL**  
Chief of Pharmacology, Johns Hopkins  
School of Medicine, Baltimore, Md.

### ***War Wounds and Burns***

#### **BALL ROOM (First Floor)**

**BRIG. GENERAL FRED RANKIN**, *Chairman*  
The Surgeon General's Office; Chief Consultant to the U. S. Army.

#### **MAJOR CHAMP LYONS**

Associate in Surgery and Instructor in  
Bacteriology, Harvard Medical School;  
Assistant Surgeon, Mass. General Hospital.  
On duty at Halloran General Hospital.

#### **DR. NEAL OWENS**

Consultant at U. S. Naval Air Base, New  
Orleans, La. In charge of course in Maxillo-  
facial Plastic Surgery for Military Men at  
Tulane University.

#### **CAPTAIN CAMILLE M. SHAAH**

Chief of the Surgical Service at Philadelphia Naval Hospital. Medical Officer of  
the U. S. S. *Lexington*.

#### **LIEUTENANT COLONEL A. H. THOMPSON**

Medical Field Service School, Carlisle Barracks, Carlisle, Penna.

### ***Neuropsychiatry***

#### **CLOVER ROOM (First Floor)**

**EDWARD A. STRECKER, M.D.**, *Chairman*  
Professor of Psychiatry, Undergraduate  
and Graduate Schools of Medicine, U. of  
Penna.; President, American Psychiatric  
Association.

**DR. KENNETH E. APPEL**

Psychiatrist to the Penna. Hospital; Ass't Professor of Psychiatry, Medical School, U. of Penna.

**COMMANDER FRANCIS J. BRACELAND**

Bureau of Medicine and Surgery, Neuropsychiatry Section, Washington, D. C.

**LIEUTENANT COLONEL MALCOLM FARRELL**

Ass't Chief, Neuropsychiatry Branch, Surgeon General's Office.

**COLONEL ROY D. HALLARAN**

Chief of Neuropsychiatry Division, Office of Surgeon General War Department; Professor of Clinical Psychiatry, Tufts Medical College, Boston, Mass.

**DR. JOSEPH HUGHES**

Armed Forces Induction Board, Phila.; Ass't Professor of Experimental Neurology, Graduate School of Medicine, U. of Penna.; Instructor of Psychiatry, U. of Penna.; Psychiatrist to the Institute of Penna. Hospital, Director of Laboratories for Mental and Nervous Diseases.

**COLONEL WILLIAM C. PORTER, *Flight Surgeon***

Director of the School of Military Psychiatry, Lawson General Hospital, Atlanta, Ga.; recent service in England.

**LIEUTENANT HOWARD P. ROME**

Mobile Hospital, Pacific Area, 1942; Bureau of Medicine and Surgery, Neuropsychiatry Section, Washington, D. C.

## ***Cardiovascular Disorders***

### **JUNIOR ROOM (First Floor)**

**LIEUTENANT COLONEL EDGAR V. N. ALLEN, *Chairman***

Medical Consultant Seventh Service Command; Associate Editor of *American Heart Journal*.

**DR. WAYNE BABCOCK**

Professor of Surgery, Temple University Medical School.

**MAJOR DONALD W. INGHAM**

Medical Service, Camp Crowder, Mo.

**BRIGADIER J. C. MEAKINS**

Brigadier and Deputy Director General of Medical Services, 1942. Research of Officers, R.C.A.M.C.

**DR. WILLIAM STROUD**

Past President of American Heart Association; Editor of the Cardiovascular Section of the *Cyclopedia of Medicine*. Editor of the *Diagnosis and Treatment of Cardiovascular Disease*.

**DR. PAUL WHITE**

Cardiologist, Massachusetts General Hospital, Boston.

**LIEUTENANT COLONEL IRVING WRIGHT**

Chief of Medicine, Army and Navy Hospital, Hot Springs, Ark.

## ***Plastic and Reconstruction Surgery***

### **GREEN ROOM (First Floor)**

**COLONEL ROBERT H. IVY, MEDICAL RES., U. S. ARMY**

Professor of Maxillo-Facial Surgery, U. of Penna.; Chairman of a Subcommittee on Plastic and Maxillo-Facial Surgery, National Research Council.

**LIEUTENANT COLONEL JAMES B. BROWN**

Ass't Professor of Clinical Surgery, Washington University School of Medicine; Ass't Professor of Oral Surgery, Washington University, School of Dentistry.

**COLONEL JOHN L. GALLAGHER**

Surgeon, Station Hospital, Army Air Base, Lincoln, Neb.

**LIEUTENANT COLONEL ARTHUR J. HEMBERGER**

Acting Chief of Dental Service, Walter Reed General Hospital; Instructor, Army Dental School.

**CAPTAIN HAROLD L. D. KIRKHAM**

Chief of the Department of Plastic Surgery, U. S. Naval Hospital, San Diego, Calif.; Past President of the American Oral and Plastic Association and Texas Surgical Society.

**LIEUTENANT COMMANDER C. R. STRATTSMA**  
Staff, U. S. Naval Hospital, Brooklyn, N. Y.

## ***War Dentistry***

### **PINK ROOM (First Floor)**

**MAJOR JOHN C. BRAUER, *Chairman***

Assistant to Surgeon General, Dental Division.

**MAJOR GEORGE R. KING**

Chief of Oral Surgery, Valley Forge General Hospital; Regimental Dental Surgery, 288th Infantry; Division of Dental Surgery, 97th Division.

**LIEUTENANT COMMANDER WILLIAM A. NEWMAN**

U. S. S. Naval Dispensary, Annapolis, Md.; U. S. S. *Vincennes*, 1942; Convoy duty, U. S. S. *Hornet*, Tokyo Raid; Battle of Midway, U. S. S. *Yorktown*; Battle of Guadalcanal and Savo Islands.



## TEACHING PANELS (Continued)

---

### MAJOR LESTER C. PREDMORE

Chief of Oral Surgery Section, Ashford General Hospital, White Sulphur Springs, Virginia; Division of Dental Surgery, 1st Infantry, 1941-43; Invasion of North Africa.

### LIEUTENANT COMMANDER M. G.

WHEATCROFT (DC), U. S. NAVY  
U. S. Naval Air Station, Lakehurst, N. J.; Guadalcanal, two major battles.

## FRIDAY, OCTOBER 22

12.45 to 2 P. M.

### *Neurosurgical Problems*

#### CLOVER ROOM (First Floor)

##### CAPTAIN W. M. CRAIG, *Chairman*

Chief of Surgery, National Naval Medical Center, Bethesda, Md.

##### DR. FRANCIS GRANT

Professor of Neurosurgery in Medical School of U. of Penna.

##### MAJOR FRANK T. MAYFIELD

Chief of the Neurosurgical Section, Percy Jones General Hospital, Battle Creek, Mich.

##### LIEUTENANT COLONEL R. GLENN SPURLING

Chief of Neurosurgical Section, Walter Reed General Hospital.

##### COMMANDER JAMES C. WHITE

Chief Neurosurgical Service, Massachusetts General Hospital, Boston; U. S. Naval Hospital, Chelsea, Mass.

### *Tropical Medicine*

#### ROSE GARDEN (18th Floor)

##### CAPTAIN E. G. HAKANSSON, *Chairman*

Research work, Gorgas Memorial Laboratory, Panama, 1934-37; Pearl Harbor, U. S. S. *Solace*, December 7, 1941; Medical Officer in Command, Naval Medical Research Institute.

##### COMMANDER OMAR BROWN

In charge of malaria control work and treatment of malaria patients in Panama; Directed Malaria Control Operations for Military Units in Cuba and Eastern Section of United States.

##### DR. L. T. COGGESHALL

Professor of Epidemiology and Tropical Medicine, School of Health, University of Michigan.

##### LIEUTENANT COLONEL THOMAS T. MACKIE

Director, Division of Parasitology and Tropical Medicine, Army Medical Center. Executive Officer, Course in Tropical and Military Medicine, Army School, Army Medical Center.

##### MAJOR OLIVER R. MCCOY

Consulting Parasitologist, Gorgas Memorial Laboratory, Panama, 1943; Chief of Division of Epidemiology and Tropical Diseases, Douglas Aircraft Co.

##### DR. HENRY E. MELENEY

National Consultant, Malaria, Wartime Graduate Medical Meetings; Lecturer on Tropical Medicine, Army Medical School; Chairman of the Subcommittee on Tropical Diseases, National Research Council; President, American Society of Parasitologists.

### *Aviation Medicine*

#### BALLROOM (First Floor)

##### CAPTAIN J. C. ADAMS, U. S. NAVY, *Chairman*

Flight Surgeon, Officer in Charge of Division of Aviation Medicine, Bureau of Medicine and Surgery, Washington, D. C.

##### WALTER BOOTHBY, M.D.

Chairman, Mayo Aero-Medical Unit; Professor Experimental Metabolism, Mayo Foundation.

##### COMMANDER D. C. GAEDE

Flight Surgeon, Air Operations Training Command, Jacksonville, Fla. Marine Aircraft Wings, Pacific Legion of Merit for duty in Solomon Islands.

##### CAPTAIN BERTRAM GROESBECK

Medical Officer, U. S. Naval Air Training Center, Pensacola, Fla. Served on U. S. S. *Carriers Yorktown and Saratoga*.

## TEACHING PANELS (Continued)

---

### COMMANDER B. W. HOGAN

Holds Purple Heart, Navy and Marine Corps Medal and Silver Star. Served on U. S. S. *Wasp*.

### A. C. IVY, M.D.

Since 1942 Scientific Director of the New Naval Medical Research Institute, National Naval Medical Center.

### COLONEL W. J. KENNARD

Flight Surgeon, 2nd Bomber Group, Fort George Wright, Washington; Evacuated from Bataan and Corregidor.

### LIEUTENANT COLONEL W. RANDOLPH LOVEFACE

At present Acting Chief Aero-Medical Laboratory, Engineering Division Material Command, Wright Field; working on development of oxygen masks and high altitude research.

### BRIGADIER GENERAL E. G. REINARTZ

Flight Surgeon. Service in war zones in North Africa and England, 1943.

## *Radiology and War Services*

### GREEN ROOM (First Floor)

#### DR. B. R. KIRKLIN, *Chairman*

Professor of Radiology, Mayo Clinic, National Consultant on Radiology, War-time Graduate Medical Meetings, X-Ray Consultant in the Office of Surgeon General, U. S. Army.

#### CAPTAIN C. F. BEHRENS

U. S. S. Hospital Ship *Relief*.

#### LIEUTENANT COLONEL H. O. BROWN

Chief of X-Ray Service, Fort Bragg, N. C.; Head, Department of Roentgenology.

#### ARTHUR C. CHRISTIE, M.D.

Professor of Clinical Radiology, Georgetown University Medical School.

#### DR. E. L. JENKINSON

Director of Radiology, St. Luke's Hospital, Chicago; Ass't Professor of Radiology, North Western Medical School; Vice-President, American Board of Radiology.

#### COMMANDER E. FORREST MERRILL

U. S. Naval Hospital, Newport, R. I.; Assistant Radiologist, New York Hospital; Instructor Roentgenology, Cornell Medical School, New York.

## *Venereal Diseases*

### CLOVER ROOM (First Floor)

#### ASSISTANT SURGEON GENERAL J. R. HELLER, *Chairman*

Ass't Surgeon General in Charge of Division of Venereal Diseases, USPHS.

#### DR. OSCAR F. COX

Director of Boston Dispensary.

#### DR. J. E. MOORE

Chairman of the Committee on Venereal Diseases, National Research Council, Washington, D. C.

#### COMMANDER W. H. SCHWARTZ

Officer in Charge, Section of Venereal Disease Control, Bureau of Medicine and Surgery.

#### LIEUTENANT COLONEL T. B. TURNER

Professor of Bacteriology, School of Hygiene and Public Health, Johns Hopkins, Baltimore; Chief, Venereal Disease Control Branch, Office of Surgeon General, War Department.

## FRIDAY, OCTOBER 27

4.30 to 6 P. M.

## *Chemotherapy (Application and Results)*

### ROSE GARDEN (18th Floor)

#### DR. CHESTER S. KEEFER, *Chairman*

Professor of Medicine, Boston University School of Medicine; Chairman of Subcommittee on Chemotherapy, National Research Council.

#### CAPTAIN WARWICK T. BROWN

First Marine Division, Fleet Marine Force, South Pacific Area.

#### CAPTAIN DON. S. KNOWLTON

First Marine Division, Fleet Marine Force, South Pacific Area.

## TEACHING PANELS (Continued)

### DR. JOHN S. LOCKWOOD

Ass't Professor of Surgery Research and Acting Director, Harrison Department of Surgical Research.

### BRIGADIER GENERAL HUGH MORGAN

Chief Consultant in Medicine, U. S. Army.

## Fractures

### BALLROOM (First Floor)

#### CAPTAIN C. M. SHAAH, *Chairman*

Chief of the Surgical Service at Philadelphia Naval Hospital; Medical Officer of the U. S. S. *Lexington*.

#### LIEUTENANT COLONEL R. A. GRISWOLD

Consultant in Surgery, Fourth Service Command; is now Chief of Surgical Service, Walter Reed General Hospital.

#### COLONEL R. I. HARRIS

Ass't Professor of Surgery, University of Toronto, and Senior Surgeon, Toronto General Hospital, and Chief of Fracture and Orthopedic Service.

#### DR. OSCAR L. MILLER

Visiting Orthopedic Surgeon, Charlotte Memorial and Mercy Hospitals; Consulting Orthopedic Surgeon, North Carolina Orthopedic Hospital.

#### DR. M. N. SMITH-PETERSEN

Clinical Professor of Orthopedic Surgery, Harvard Medical School; Chief of Orthopedic Service, Massachusetts General Hospital.

#### LIEUTENANT COLONEL T. C. THOMPSON

Chief of Orthopedic Section, Surgical Service of Walter Reed Hospital. Ass't Clinical Professor of Orthopedic Surgery of Columbia Hospital.

#### DR. PHILIP D. WILSON

Past President of American Academy of Orthopedic Surgery; Major and Orthopedic Consultant; Honorary Member of British Orthopedic Association.

## Shock, Plasma, Blood Substitutes

### CLOVER ROOM (First Floor)

#### CAPTAIN L. R. NEWHOUSER, *Chairman*

1937-38, Hospital Ship U. S. S. *Relief*; 1939, Chief of Medicine, U. S. S. *Relief*; Subcommittee on Blood Substitutes and Committee on Shock, National Research Council; National Consultant, Wartime Graduate Medical Meetings.

### LIEUTENANT SAM T. GIBSON

Naval Medical School, National Naval Medical Center, Bethesda, Md.; Work in connection with Blood Plasma and Human Serum Albumin.

### LIEUTENANT COMMANDER ROBERT HICKES

Charge of Blood and Plasma Department, U. S. Naval Hospital, San Diego, Calif.; Supervisor, American Red Cross Blood Donor Service, San Diego Area.

### DR. CHARLES JANEWAY

Member of Department of Medicine at Peter Bent Brigham Hospital; Ass't Professor of Pediatrics.

### LIEUTENANT COLONEL D. B. KENDRICK

Chief Blood Research Division, Army Medical School; Technical Director of Blood Substitutes for the Army; Special Representative of Surgeon General on Transfusions and Intravenous Solutions.

### DR. MAX M. STRUMIA

Director of Medical Laboratory, Bryn Mawr Hospital, Bryn Mawr, Penna.; Ass't Professor of Pathology; Graduate School, U. of Penna.; Member of Committee on Blood Substitutes of the National Research Council.

### DR. MILTON V. VELDEE

Senior Surgeon and Chief of the Division of Biologics Control, National Institute of Health.

## Industrial Medicine

### PINK ROOM (First Floor)

#### COLONEL ANTHONY LANZA, *Chairman*

Commissioned Medical Officer in U. S. Public Health Service. Chief Surgeon of U. S. Bureau of Mines and Chief of Industrial Hygiene Division.

#### COMMANDER O. L. BURTON

Liaison Officer to the Chief Health Consultant, U. S. Maritime Commission; in charge, Section of Industrial Health, Bureau of Medicine and Surgery.

#### DR. T. LYLE HAZLETT

Professor and Head of Department of Industrial Hygiene School of Medicine, University of Pittsburgh.

#### DR. WILLIAM A. SAWYER

Medical Director, Eastman Kodak Co., Rochester, N. Y., Member Subcommittee on Industrial Medicine, Division of Medical Sciences, National Research Council.

#### DR. JAMES TOWNSEND

Chief, Division of Industrial Hygiene, National Institute of Health.



## TEACHING PANELS (Continued)

---

### **Gastrointestinal Disorders**

#### **JUNIOR ROOM (First Floor)**

**DR. A. C. IVY, *Chairman***

President of the American Gastroenterological Association; American Physiological Society; and Chairman of the Section on Physiology and Pathology of American Medical Association.

**DR. HENRY L. BOCKUS**

Professor of Gastroenterology, Graduate School, University of Pennsylvania School of Medicine.

**COMMANDER B. W. HOGAN**

Holds Purple Heart, Navy and Marine Corps Medal and Silver Star. Served on U. S. S. *Wasp*.

**MAJOR H. A. ROBINSON**

Chief of Professional Services, Camp Grant, Ill. Flight Surgeon.

### **Fatigue**

#### **GREEN ROOM (First Floor)**

**LIEUTENANT COLONEL D. B. DILL, *Chairman***  
Medical Research Laboratory of the Ar-

mored Command, Fort Knox, and of the Aero Medical Laboratory at Wright Field.

**COMMANDER A. R. BEHNKE**

Research Executive, Naval Medical Research Institute, National Naval Medical Center, Bethesda, Md.

**DR. ARLE V. BOCK**

Oliver Professor of Hygiene, Harvard Medical School, Acting Director of Fatigue Laboratory, Harvard Medical School.

**LIEUTENANT COLONEL WILLIAM R. HALLARAN**

Recently returned from active duty in Tropical Zone.

**DR. ANCEL KEYS**

Director of Laboratory of Physiological Hygiene, University of Minnesota.

**LIEUTENANT COLONEL GEORGE I. SNEIDMAN**

Surgeon in 77th Infantry Division.

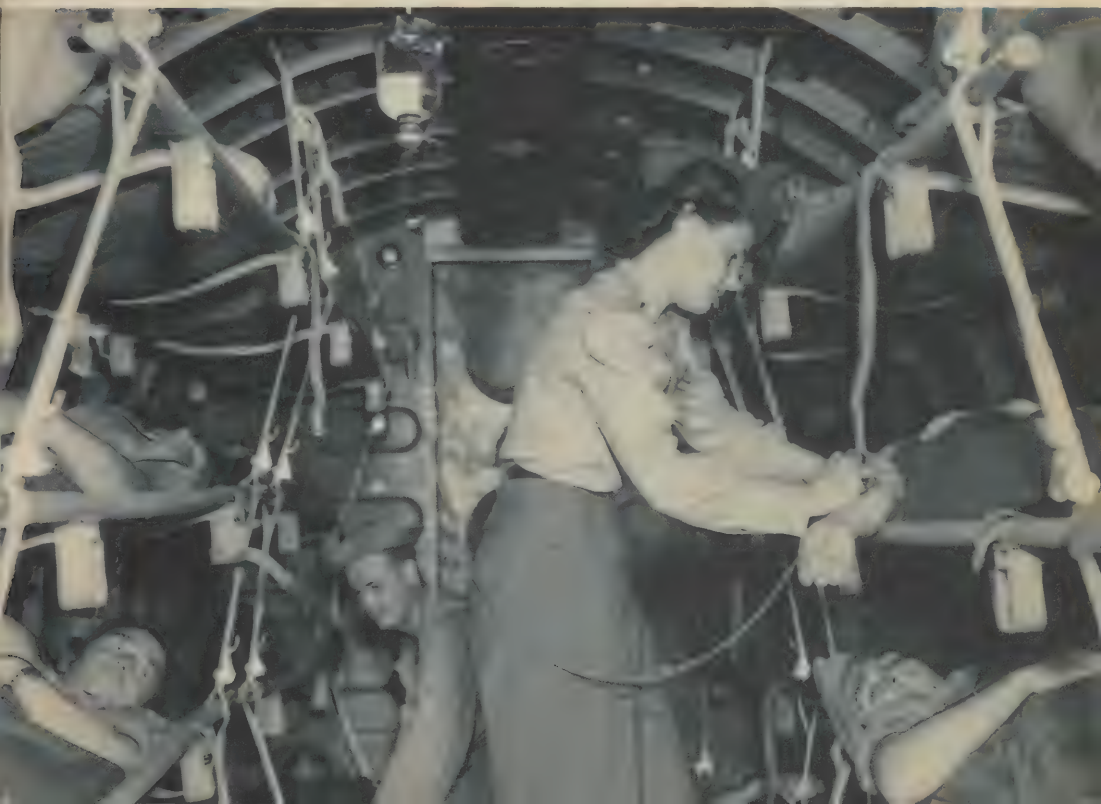
**LIEUTENANT COMMANDER FRANK H.**

**WICKHORST**

Head of Preflight Section, Physical Training Division, Office of Naval Operations.

---

**"Evacuation Team" of Flight Nurse and Staff Sergeant Administering blood plasma in hospital plane**



# THE MOTION PICTURE PROGRAM

**T**HE Medical Services of the Armed Forces are continually developing new methods and techniques for studying the causes and effects of diseases, and the care of injuries in time of war. To have accurate recordings of the work, the medium of motion pictures has been utilized to the utmost in practically all the war zones and combat areas. Medical units are accompanied from time to time by motion picture operators for the purpose of recording activities of the Medical Corps.

In addition to this, films of important research projects being carried on in the field of medical operations in submarine, carrier, battleship, convoy, aviation, amphibious and transport warfare, have been made. Many of these films will be shown for the first time in Philadelphia. These films, selected from over six hundred that were available, represent the highlights of scientific research along those lines.

The subjects encompass such scope as venereal diseases, a great problem at training centers, malaria, plasma in all its forms, demineralization of water, swimming through burning oil, high altitude flying, stocking of life rafts, burns and fractures from battle, duties of medical men in amphibious landings, use of the helicopter in evacuating wounded in rugged terrain, also a film on "Japan, Our Enemy." This film deals with the land, the people and the "Dream of World Empire." Only a very few of the films obtained can be mentioned here.

Arrangement has been made to have two pictures run simultaneously in two designated rooms. By this means twenty-two hours' running time of films can be shown. Fifty films, with alternates, constitute the program.

## MOTION PICTURE SCHEDULE

THURSDAY, OCTOBER 21

2 P. M. to 3 P. M.

Series "A"		Series "B"	
The Ballroom		Clover Room	
Title	Source	Title	Source
Demineralizing Water . . .	Navy	Defense Against Chemical Warfare . . . . .	Army
Navy Men of Medicine . . .	Navy	Decontamination Procedures, Personnel Areas . . . .	Army
Essentials of First Aid . . .	Navy	Kill or Be Killed . . . . .	Army

# INTERMISSION—VISIT EXHIBITS

3 P. M. to 3.30 P. M.

## THURSDAY

3.30 P. M. to 4.30 P. M.

Series "A" The Ballroom		Series "B" Clover Room	
Title	Source	Title	Source
Preparation of Liquid Plasma . . . . .	<i>Navy</i>	Syphilis . . . . .	<i>Public Health</i>
How to Use Dried Plasma . . . . .	<i>Navy</i>	Camouflage . . . . .	<i>Army</i>
How to Use Serum Albumen . . . . .	<i>Navy</i>	Rocky Mountain Spotted Fever . . . . .	<i>Army</i>
Skeletal Fixation by Stader Splint . . . . .	<i>Navy</i>		

## FRIDAY, OCTOBER 22

9.30 A. M. to 10.30 A. M.

Swim and Live . . . . .	<i>Navy</i>	Battle of Britain . . . . .	<i>Army</i>
Swimming Through Burning Oil and Surf . . . . .	<i>Navy</i>		
Treatment of Fracture of the Jaws . . . . .	<i>Navy</i>		

# INTERMISSION—VISIT EXHIBITS

10.30 A. M. to 11 A. M.

## FRIDAY

11 A. M. to 12.30 P. M.

Gonorrhea, Diagnosis and Treatment . . . . .	<i>Public Health</i>	Venereal Diseases in Women (First Showing) . . . . .	<i>Canadian</i>
Fight Syphilis . . . . .	<i>Public Health</i>	Amphibious Warfare, Ship to Shore Movement . . . . .	<i>Navy</i>
Physiology of High Altitude Flying . . . . .	<i>Army</i>	Abandon Ship (First Showing) . . . . .	<i>Navy</i>
Navy Medical Research in Time of War (First Showing) . . . . .	<i>Navy</i>	House Fly Dysentery . . . . .	<i>Canadian</i>



# THE MOTION PICTURE PROGRAM *(Continued)*

## FRIDAY, OCTOBER 22

2 P. M. to 3 P. M.

Series "A"		Series "B"	
The Ballroom		Clover Room	
Title	Source	Title	Source
Evacuation of Wounded by Air, New Guinea . . . . .	<i>Army</i>	Personnel Damage Control (Fundamental First Aid) . . .	<i>Navy</i>
Evacuation of Wounded by Air, Tunisia . . . . .	<i>Army</i>		
The Nature of War Injuries of the Head . . . . .	<i>Navy</i>		

### INTERMISSION—VISIT EXHIBITS

3 P. M. to 3.30 P. M.

## FRIDAY

3.30 P. M. to 4.30 P. M.

Oxygen in Aviation . . . . .	<i>Navy</i>	Desert Victory . . . . .	<i>Britain</i>
Malaria, Cause and Effect . . .	<i>Army</i>		

## SATURDAY, OCTOBER 23

9.30 A. M. to 10.30 A. M.

Pacific Island No. 43 (First Showing) . . . . .	<i>Navy</i>	Schnelle Truppen (Crack German Troops) . . . . .	<i>Army</i>
Winged Scourge (Walt Disney Animated Cartoon on Malaria) . . . . .	<i>Public Health</i>	First Aid for Gas Casualties . .	<i>Army</i>
Enemy Booby Traps . . . . .	<i>Canadian</i>	Nutrition . . . . .	<i>Canadian</i>

### INTERMISSION—VISIT EXHIBITS

10.30 A. M. to 11 A. M.

## SATURDAY

11 A. M. to 12 Noon

Medical Department in Amphibious Assault . . . . .	<i>Navy</i>	The Medical Services in North Africa . . . . .	<i>Army</i>
The Enemy, Japan, the Land . .	<i>Navy</i>	The Louse, Typhus . . . . .	<i>Canadian</i>
The Enemy, Japan, the People . .	<i>Navy</i>	At the Front in North Africa with U. S. Army . . . . .	<i>Army</i>
The Enemy, Japan, Dream of World Empire . . . . .	<i>Navy</i>		

### RESERVE FILMS

December 7th—8th Air Force at Work Over Germany—Nazi  
Attack—Next of Kin—England Today

# THE RADIO PROGRAM

---

THE public is deeply interested in the events of this convention. Philadelphians have eagerly anticipated the visit of so many famous military men of medicine. The subjects under discussion deal with the health and security of millions of Americans. Because of the widespread public interest, the highlights of the meeting, especially those of broadest general appeal, will be broadcast.

The four principal studios of Philadelphia—WCAU, KYW, WFIL, WIP—through which national hook-ups are available for certain addresses, have been most cooperative in arranging the radio program. For definite time-of-day assignments consult the radio schedule in the newspapers.

## THE PRE-CONVENTION PROGRAM

### *Saturday, October 16*

Capt. Joseph A. Biello (MC), U. S. N.  
"The Coming Convention"

### *Sunday, October 17*

Interviews on Military Medicine in Action.

### *Monday, October 18*

Capt. Jesse W. Allen (MC), U. S. N.  
"Distinguished Guests Coming to the Convention."

### *Tuesday, October 19*

Dr. Eugene P. Pendergrass  
"Philadelphia Welcomes the Military Surgeons."

### *Wednesday, October 20*

Dr. Gilson Colby Engel.  
"Philadelphia Hospitality and the Military Surgeons."

## CONVENTION PROGRAM

### *Thursday, October 21 (p. m.)*

Rear Admiral William L. Mann (MC), U. S. N.

"The Military Surgeons Meeting in Philadelphia."

Rear Admiral Ross T. McIntire (MC), U. S. N.

"Significant Trends in Naval Medicine."

Major General Norman T. Kirk (MC), U. S. A.

"The Medical Department in Field Service."

Dr. Warren F. Draper, U. S. P. H. S.  
"Advances in Public Health During the War."

### *Thursday, October 21 (evening)*

9 p.m. Address by Lt. Gen. Sir Alexander Hood, Nation-wide broadcast.

### *Friday, October 22*

Brigadier General Hugh Morgan (MC), U. S. A.

"Medical Service with the Troops in Africa and Italy."

Brigadier General David N. W. Grant (MC), U. S. A.

"The Air Surgeon."

Brigadier Jonathan C. Meakins, RCAMC.  
"Personnel Selection for the Canadian Army."

Capt. Melville J. Aston (MC), U. S. N.  
"Naval Hospital Ship."

### *Friday, October 22 (evening)*

9 p. m. Address by Rear Admiral William D. Leahy, Nation-wide broadcast.

### *Saturday, October 23*

Interviews to be arranged with distinguished international guests.







# ARMY NIGHT

## 8.00 P. M.—THE BALLROOM

PRESIDING OFFICER, Major General Norman T. Kirk (MC),  
Surgeon General, U. S. Army

## 8.15 P. M.

GREETINGS FROM THE PRESIDENT

Presented by Rear Admiral Ross T. McIntire (MC), U. S. Navy

INTRODUCTION OF DISTINGUISHED GUESTS

SELECTED SHORT ADDRESSES

## 9.00 P. M.

ADDRESS OF THE EVENING

Lieutenant General Sir Alexander Hood, K.C.B.,  
C.B.E., K.H.P., Director General, Army Medi-  
cal Service, Great Britain  
Nation-wide Broadcast

ANNOUNCEMENTS . . . President of the  
Association, Rear Admiral  
W. L. Mann (MC), U. S. Navy

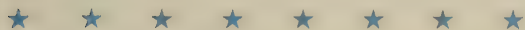
CONCLUDING REMARKS . The Presiding Officer  
Music by Orchestra, Valley Forge  
General Hospital

## 10.00 P. M.

SMOKER GIVEN BY THE DOCTORS AND  
DENTISTS OF PHILADELPHIA

REFRESHMENTS

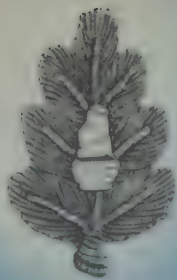
TOP-FLIGHT VAUDEVILLE ACTS



LIEUTENANT GENERAL SIR ALEXANDER HOOD,  
K.C.B., C.B.E., K.H.P., Director General,  
Army Medical Services, Great Britain







# NAVY NIGHT

## 6.30 P. M.—THE BALLROOM

ANNUAL DINNER OF THE ASSOCIATION

Informal      Ladies Invited

## 8.30 P. M.

PRESIDING OFFICER: Rear Admiral Ross T. McIntire (MC),  
Surgeon General, U. S. Navy

### HONORARY AWARDS

Founders Medal

Gorgas Award

Wellcome Award

Association Medal

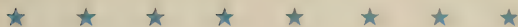
## 9.00 P. M.

ADDRESS OF THE EVENING

Admiral William D. Leahy, U. S. Navy

Nation-wide Broadcast

Music by the Navy Yard Orchestra



**ADMIRAL WILLIAM D. LEAHY,**  
U. S. Navy

Honorary Member of the Association

Governor of Puerto Rico, June 13, 1939. Appointed  
ambassador to France in November, 1940. On July  
22, 1942 reported for duty as Chief of Staff to the  
Commanding Officer of the United States Army and  
Navy.





# PHILADELPHIA HOSPITALITY

**T**HE present convention is the third meeting of the Association in Philadelphia, the first being held in 1896, the second in 1926. The City of Philadelphia and leading representatives of the medical and dental professions in appreciation of the honor extended Philadelphia by the visit of the Association, desire to offer the hospitable facilities of the community to the members of the Association and its distinguished guests, not only during, but after the convention is over.

Hospitality has long been the most prominent attribute of Philadelphia's inhabitants.

The scientific program—A Symposium on War Medicine—will furnish the members of the Association, the guests and the medical profession at large with an array of teaching talent of the highest quality. Every paper and every presentation is important.

Between time, however, pleasant hours of recreation and relaxation are required for diversion in order that interest may be maintained during the scientific presentations.

The medical and dental professions and, indeed, the entire community are looking forward to the honor of having a great number of distinguished military doctors as their guests.

The theatres, moving picture houses, and night clubs are preparing to welcome the members and guests of the Association during their hours "off duty."

Thursday noon, the Honorable Bernard Samuel, Mayor of the City of Philadelphia, will hold a buffet luncheon for officials of the Association and their distinguished guests in the Burgundy Room, main floor, Bellevue-Stratford Hotel, at 12.30. Invitations for this event have been extended by the Mayor and admission will be by ticket.

The Smoker given by the members of the medical and dental professions of Philadelphia will be given in the Ballroom, 10 p. m., Thursday evening following the program of ARMY NIGHT. Top-flight vaudeville acts are on the schedule. Refreshments will be served.

Friday afternoon at 2.30 and Saturday evening at 8.30, the Philadelphia Orchestra, one of the world's most famous musical orchestras, is playing a program in the Academy of Music adjacent to the Bellevue-Stratford. In salute to the Association and its distinguished guests, Mr. Ormandy has added "The Stars and Stripes Forever." Tickets for either of these concerts will be available at the Entertainment Booth in the lobby of the hotel.

The program for the concerts of the Philadelphia Orchestra on Friday and Saturday is as follows:

- HANDEL . . . . . Suite for Orchestra, "The Faithful Shepherd"  
(Arranged by SIR THOMAS BEECHAM)
- VAUGHAN WILLIAMS . . . Concerto Accademico, in D minor, for violin  
and orchestra, ALEXANDER HILSBURG
- ELGAR . . . . . "Enigma" Variations on an Original Theme,  
Op. 36
- SOUSA . . . . . "The Stars and Stripes Forever"—In salute to  
the Association of Military Surgeons of the  
United States

Philadelphians are most eager to have members of the Association and their guests remain over for the week-end. The close of the scientific part of the program is a most appropriate time for the members to take advantage of the hospitality offered them by the numerous golf clubs on Saturday afternoon and Sunday. The community hopes that the large number of visitors attending the convention will long remember this meeting and will look forward to further visits to the "City of Brotherly Love."

#### THE PHILADELPHIA ORCHESTRA





# Charting NEW SEAS

**T**HE wounds of war in the Napoleonic era produced a mortality rate of more than 50%. In our Civil War approximately one half of all wounded men died; in the first World War against humanity the rate was approximately 15%. In the present

struggle for freedom, spectacular lows have been reported. The fatal rate (excluding immediately fatal injuries) of our Guadalcanal heroes was 1%, and this control over the devastations of war may even be eclipsed in efficiency by the development of new and refined technics of War Medicine.

A noted authority has stated that the most important developments of medical science in modern wars are, first, drug control of infections; second, plasma; third, improved methods of transporting the wounded.

Medical science is extending its horizons still further with improvement of technics, drugs of greater potency, greater surgical skill and discovery of continually new approaches to the control of disease and the repair of injuries, all being introduced into the care, aid and protection of our wounded as rapidly as their effectiveness has been adequately demonstrated.

Superb leadership has reached out, has probed all sources in its quest for materials and devices which might offer greater protection to our fighting men.

Round-the-clock searching, experimenting, designing, originating and applying hitherto unknown products and methods under the critical eyes of our nation's leaders in medical science, promise a medical service to our men in action that has been heretofore unequalled.

The stresses and strains of temperature extremes, accelerated speeds of dive bombing, immersion exposures, blast bombing and many other effects of civilized warfare to which the human body and mind are being subjected, pose new problems of physiology, pathology and human endurance that are being scientifically studied in many of the country's laboratories.



Reconstructive surgery has reached a new level of perfection. Likewise, recently developed improvements for the treatment of fractures offer a higher degree of efficiency with better results than former treatments were able to realize.

Wearing apparel for the first time is being investigated as a protective factor under varying conditions.

Wartime rehabilitation has engaged the attention of many of our country's foremost men of vision. Emphasis on treatment by physical therapy, occupational therapy and bibliotherapy offers new possibilities.

First-aid on the battle field with the immediate administration of blood plasma, and instillation of sulfa drugs has dramatically reduced the morbidity rate.

In the field of naval medicine, the discovery of methods of converting sea water to drinking water, provisioning of life rafts and new types of clothing, have brought aid, comfort and frequently have been the deciding factors in the survival of shipwrecked men.

The impact of vastly accelerated methods of transportation has proportionately increased the rapidity of the spread of the various diseases, many of which have, until recently, been regarded as problems of local regions only. Today, any disease may theoretically occur in any part of the world where men live. The leaders in medical science are surveying the new dangers that threaten mankind. New measures for curbing the ravages of the various diseases are being instituted.

Medicine is charting new seas in the interest of mankind. An insight into the fascinating realm of medical research can be gained by visiting the numerous superb scientific exhibits of the present assembly.

---

## SCIENTIFIC EXHIBITS

### *The Association of Military Surgeons, 51st Annual Convention*

#### **A. Amputations**

THOMAS G. HULL, M.D., Director of Scientific Exhibits, American Medical Association, Chicago, Ill.

An exhibit of manikins and charts prepared under the auspices of the Council on Physical Therapy of the American Medical Association showing the sites of choice for amputation of the leg so that it may be properly fitted with an artificial limb, and of the fingers so that the hand will provide proper function. A pamphlet presenting the essential points of the exhibit will be available for distribution.

#### **B. Convalescent and Rehabilitation Training Program in Army Air Forces Hospitals**

LIEUTENANT COLONEL HOWARD A. RUSK (MC), U. S. ARMY, Office of Surgeon General, War Department, Washington, D. C. Consists of some thirty photographs of

various phases of physical and educational convalescent training, material used, and handicraft of a military nature made by convalescents, as well as a complete graphic summary of the rehabilitation program in the Army Air Forces.

#### **C. Triple Dye Treatment of Burns**

ROBERT H. ALDRICH, M.D., Boston, Mass. Photographs, tables and charts relating to the triple dye treatment of burns with an analysis of 3,004 burns from the Boston City Hospital, describing the three phases, shock, healing, and skin grafting.

#### **D. Compression Therapy Dressings**

COLONEL JOHN L. GALLAGHER (MC), U. S. ARMY, Station Hospital, U. S. Army, Office of Surgeon, Lincoln, Neb.

There will be displayed all types and sizes of the dressings, showing them in the various stages of assembly; a life-size male

## SCIENTIFIC EXHIBITS (Continued)

manikin upon which will be demonstrated the two sizes of the dual purpose dressings (these dressings will be in their sponge shape of great depth and in their sponge unfolded wide area compression state); a 16-unit pack placed near the head of the manikin, in its permanent package forming a cube of 9 inches; the contents of another package will be applied to the head, neck and one upper extremity of the manikin, showing the area of the human body that it will cover; and the opposite hand will show the finger individualizers in place. A number of clinical cases will be illustrated by enlarged photographs.

### E. A New Apparatus for External Fixation of Fractures

MAJOR C. J. SPEAS, D.C., Division of Oral Surgery, Station Hospital, Mitchel Field, Long Island, N. Y.

Various sizes of a reduction splint, showing its universal application to the long bones and mandible. The splints will be displayed on an articulated skeleton of the lower extremity, upper extremity and mandible. Photographs will show construction of this splint, as well as its actual application on patients. Splints and wrenches will furnish for spectators' study of the apparatus.

### F. Carcinoma of the Rectum and Colon

THOMAS A. SHALLOW, M.D., and BENJAMIN HASKELL, M.D., Department of Surgery, Jefferson Hospital, Philadelphia, Pa.

A series of charts designed to show the clinical features, operative data and end results in 100 cases of carcinoma of the rectum and colon. Included also will be a number of gross specimens, transparencies of x-ray films and lesions to illustrate the diagnostic features, especially of cases showing extensive involvement. The exhibit particularly stresses the value of operation in a considerable number of those cases heretofore considered to be inoperable.

### G. Skeletal Fixation in Fractures of the Mandible

ROBERT H. IVY, M.D., and LAWRENCE CURTIS, M.D., Department of Maxillo-Facial Surgery, University of Pennsylvania, Philadelphia, Pa.

Two forms of apparatus that have been

employed; models showing the types of fracture of the mandible in which this method is indicated. Photographs of patients and radiographs showing apparatus in place. Description of technique of applications.

### H. Operations on Kidney Prostate and Bladder

OSWALD S. LOWSLEY, M.D., Department of Urology, James Buchanan Brady Foundation, New York Hospital, New York City.

Pictures in half-tone illustrating surgical procedures at the operating table.

### J. Veterans' Administration

CHAS. M. GRIFFITH, M.D., Veterans' Administration, Washington, D. C.

Pictures and descriptions showing some of the routine and special measures in physical therapy, occupational therapy, and bibliotherapy used to aid in the treatment of patients in Veterans' Administration hospitals. This will consist of six charts of pictures with their sub-titles and eleven transparencies showing the Physical Therapy Department and the various types of treatment being administered. Appropriate types of physical treatments are available at ninety-two Veterans' Administration hospitals and three regional offices; of these thirteen are tuberculosis, two are neuropsychiatric, and fifty are general medical.

### K. Tuberculosis Finding at Philadelphia Navy Yard

MR. CHARLES KURTZHALZ, Philadelphia Tuberculosis and Health Association, Philadelphia, Pa.

A collection of interesting photofluoroscopic and x-ray films selected from the volume of material secured in an x-ray survey of the thousands of civilian employees at the Philadelphia Navy Yard. The survey was conducted as the joint project of the Philadelphia Tuberculosis and Health Association, the Division of Tuberculosis of the Philadelphia Department of Health and the U. S. Public Health Service with the cooperation of Temple University Hospital and the Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis.

## SCIENTIFIC EXHIBITS (Continued)

### L. Radiologic Aspects of Spondylolisthesis

COLONEL W. W. SOUTHARD, Nichols General Hospital, Louisville, Ky.

Series of 15 cases of prespondylolisthesis anterior and posterior spondylolisthesis showing where to look for defect on films, nature of defect, how defect can be picked out from routine abdominal films. Special films desirable for complete study. Model pelvis and sacrum showing artificially created defect.

### M. The Administration of Blood and Other Fluids via the Bone Marrow

L. M. TOCANTINS, M.D., J. F. O'NEILL, M.D., A. H. PRICE, M.D., H. W. JONES, M.D., Division of Hematology, Jefferson Hospital, Philadelphia, Pa.

Anatomical and Physiological background of the technique for infusions via the bone marrow. Descriptions of favorable sites and actual demonstrations of the steps in the technique on human anatomical specimens. Discussion of indications, contraindications and complications of the technique. Tabulation of the experience with the method to date with stress on its most important applications, particularly in acute emergencies in civilian and military life.

### N. Mustard Gas Poisoning; Trench Foot; Evolution of the Gas Mask

E. B. KRUMBHAR, M.D., College of Physicians of Philadelphia, Philadelphia, Pa. Field paintings of mustard gas and trench foot. Six gas masks, tracing their evolution from earliest "Flannel hood type" to present.

### O. Philadelphia and Military Medicine

MR. WILLIAM F. IRWIN, *Executive Secretary*, Philadelphia County Medical Society, Philadelphia, Pa.

Portrayal of activities of Philadelphia physicians in World War II and previous wars in which the United States was involved. Charts and pictures illustrating the contribution of Philadelphia to Military Medicine. Emphasis on specific contributions by individual physicians.

### P. War Injuries Exhibit

J. MALLORY CARLISLE, M.D., and HARRISON S. MARTLAND, Rahway, N. J.

1. Traumatic injuries. 2. A. Fire and steam burns; B. Acid burns, a. Methyl bromide, b. hydrochloric acid, c. Sulphuric acid, d. Nitric acid, e. Acetic acid; C. Alkali

burns: a. Silver nitrate, b. Sodium hydroxide; D. Special burns: a. Divinyl acetate, b. Phosphorus, c. Bromide.

In addition outlines of treatment dealing with the essential procedures for the care of major and minor traumatic injuries. The use of penicillin, as well as the compression treatment of burns.

### Q. Plasma

MRS. GEORGE ARTAMONOFF, Red Cross Blood Donor Service, Philadelphia, Pa.

Plasma with reference to its collection by the Red Cross for the Army and Navy. Three-minute moving shows lighted by ultra-violet light will show psychological approach to civilians, collection of blood, laboratory processing, distribution to battlefields. Photomontages; diorama; three-dimensional tanks, ships, and parachutes.

### R. Serum Studies

F. WILLIAM SUNDERMAN, M.D., Department of Research, University of Pennsylvania School of Medicine, Philadelphia, Pa.

A rapid method for estimating the concentration of serum protein. (Measurements are made by means of the Abbe refractometer.) The use of a permanent standard for hemoglobin measurements. Estimation of total base in serum calculated from the measurements of specific conductance and serum protein.

### S. Transplantation of Tissues; Reconstructive Surgery

HANS MAY, M.D., and ROBERT BRIGGS, M.D., Lankenau Hospital, Philadelphia, Pa.

Dr. Briggs will show methods of transplantation and preservation of skin of mice. Transplantation of neoplasms in tadpoles and other animals will also be shown. A discussion will be held of the significance of the results.

Dr. May will show exhibit consisting of casts and color transparencies dealing with methods of closing defects of lips and chin, correction of scars and treatment of burns. Demonstration by moving pictures.

### T. Army Service Forces

LIEUTENANT COLONEL JENNER G. JONES (MC), U. S. ARMY, War Department, Office of the Surgeon General, Washington, D. C.

1. First-aid Packet, Portable Electro-Surgical Unit, Oxygen Therapy Outfit. 2. Supplemental Instrument Sets—Ear, Nose and Throat Injuries; Fractures,



## SCIENTIFIC EXHIBITS (Continued)

Amputations, Orthopedic; Genito-Urinary; Chest injuries; Maxillo-Facial Injuries; Brain and Nerve Injuries.

3. X-Ray Field Units: Chest, Film; Dryer and Loading Bin Combination; Tube Unit, Chest; Processing Unit for Dark-room; Bi-Plane Marker and Re-Orienting Device;
4. Kits: Dental Officer's; Dental Private's; Jungle, Medical Individual; Medical Officer's, Parachutist's, Veterinary Non-commissioned Officer's, Officer's and Private's; Gas casualty Set, First Aid, Arctic and Jungle; Gas Casualty, Aeronautic, Motor Vehicle.
5. Field and Collapsible Carriers.
6. Lamp, Operating, Field.
7. Litter, Straight, Steel.
8. Sterilizer, Dressing and Utensil.

### U. Exhibit of Royal Canadian Army

LIEUTENANT COLONEL W. B. WEDD, Canadian Legation, Washington, D. C.

1. Canadian Army "Pulhems" System of Grading Recruits.
2. Canadian Mess Tin Ration.
3. Canadian Army Night Vision Test Unit. The object of this exhibit is to make readily available to observers the essential features of the Ration. An exhibit in either case would consist of a demonstration followed by a test of the personnel.

### V. Army Medical Museum

COLONEL J. E. ASH (MC), U. S. ARMY, Army Medical Museum, Washington, D. C.

The exhibit which the Army Medical Museum will send to the meeting of the Association of Military Surgeons deals with (a) the pathology of epidemic hepatitis; (b) the renal lesions of the crush syndrome and of other forms of traumatic anuria; (c) the pathology of important tropical diseases; (d) atlases of orthopedic pathology, dental and oral pathology, ophthalmic pathology and otolaryngic pathology; (e) moulages of war wounds used for instruction of troops; and (f) photographs and drawings illustrating first aid in combat.

### W. National Naval Medical Center

LIEUTENANT EUGENE L. LOZNER (MC), U. S. NAVY, Bethesda, Md.

A. Naval Medical Research Institute.

1. Drinking Water from Sea Water—Chemical Method.
2. Protection from Flash Burns by a Protective Film Applied to the Skin.

3. Demonstration of an Automatic Photofluorographic Camera.

4. A Lucite Calvarium for Direct Observation of the Brain.

5. Electron Microscopy. Effect of Antisepticizing Agents on Structure of Bacteria.

B. Series of Motion Picture Films (10).

C. Medical Illustrations and Demonstrations:

- a. Half-tone drawing showing tumor in double ureter.
- b. Half-tone drawing showing granuloma of ureter.
- c. Color drawing showing result of underwater blast concussion in rat.
- d. Seventeen drawings of Malaria in color showing the three species.
- e. Four half-tone drawings showing resection, neurolysis and anastomosis of ulnar nerve.
- f. Anatomical illustration in color showing pelvic fascias.
- g. Maps in color showing geographical distribution of disease.
- h. Two pen and ink drawings showing position of foot and x-ray film to demonstrate fibular fracture.
- i. Carcinoma of Adrenal cortex.
- j. Result of indirect blow to liver.
- k. Thirty-seven blood cells in color showing histogenesis and morphology of blood cells.
- l. Urinary sediment, sulfonamide crystals and crystals in urine.
- m. Techniques for transfusion of blood and plasma.
- n. Lantern slide demonstrations of gross and microscopic pathologic lesions.
- o. Medical Department Activities.
- p. Penicillin Demonstrations. Cultures.

### X. U. S. Public Health Service

U. S. PUBLIC HEALTH SERVICE, Washington, D. C.

This exhibit consists of a display of charts, maps, and material illustrating important details of Industrial Medicine, Epidemiology and Control of Malaria, and Venereal Disease Control.

### Y. U. S. Naval Hospital, Philadelphia

CAPTAIN JESSE W. ALLEN, MEDICAL OFFICER IN COMMAND.

Department of Neuropsychiatry: Graphs correlating the electroencephalographic

## SCIENTIFIC EXHIBITS (Continued)

findings in epilepsy cases and cases of trauma; electroencephalographic apparatus.

Department of Urology: Depiction of one year's cross section of Urological cases.

Department of Urology, Division of Venereal Disease: Charts, lantern slides, movies and talks on the diagnosis, treatment and management of gonorrhea, chancroid, lymphopathia venereum and complications. The prevention and control of venereal diseases relating to the various cooperating agencies of the U. S. Public Health.

Department of Physical Therapy: Physical Medicine in War. Pictures of equipment and study of cases.

Department of Surgery: Treatment of Fractures—Stader Splint. Prereduction, reduction, end-result x-rays. Skeleton demonstrating application of the splints.

Department of Surgery: Blood Bank Division. Use and preparation of red blood cell suspensions in the treatment of anemia.

### Z. Field Sanitation and Malaria Control

CAPTAIN KNOWLTON (MC), U. S. NAVY, Commanding Officer, Camp Lejeune, New River, N. C.

Problems of field sanitation and malaria control: In World War I for the first time since antiquity, disease casualties were less than battle casualties. However, World War II shows an alarming number of disease disabilities which serve to markedly weaken fighting strength. The importance of field sanitation and malaria programs in controlling the number of disease casualties is demonstrated and a practical program presented.

### AA. Uniforms of the Armed Forces

U. S. MARINE CORPS, Quartermaster's Department, Philadelphia; War Department Quartermaster Depot, Philadelphia; Naval Clothing Depot, New York.

Uniforms of the Armed Forces—a group of manikins showing the various types of uniforms being worn by the different branches of the Armed Forces.

### BB. Seven Ages of the Physician

A series of seven fine paintings in oil by the distinguished painter, Mr. James M. Chapin, New York.

"The Doctor's Son."

"The Dying Hare."

"Medical Education."

"The Doctor."

"The Doctor in War."

"Research Heroic."

"Doctor's Heritage."

### C.C. Wartime Graduate Medical Meetings

EDWARD L. BORTZ, M.D., *Chairman*, Philadelphia, Pa.

A nation-wide extension movement in medical education. American Medicine has mobilized its superb teaching personnel and facilities for the purpose of placing opportunities for further advanced medical instruction in the large hospitals of the Armed Forces in the United States, free of cost to the government.

Upon request from the Commanding Officer of a service Hospital, courses of instruction in the form of teaching ward rounds, clinical—pathological conferences, practical demonstrations, study groups, moving pictures and formal lectures will be conducted by outstanding authorities of American Medicine, working in collaboration with specialists already in the services.

This program has been initiated by the American Medical Association, American College of Physicians, and American College of Surgeons. It has the unqualified support of the deans and faculties of 55 of the nation's leading medical schools.

The program has the authorization of the three Surgeons General.

### DD. American Bureau for Medical Aid to China

HELEN K. STEVENS, *Executive Director*, 1790 Broadway, New York City.

The American Bureau will exhibit the work that is being done under the Army Medical Administration in China; through the aid of pictures, charts, and lantern slides.

### EE. Medical Reprint Service

DR. FRANK FREMONT-SMITH, Josiah Macy, Jr., Foundation, New York City.

Medical officers of the United Nations wishing to receive the reprints of important current medical articles which are being distributed by the Josiah Macy, Jr., Foundation, in collaboration with the National Committee for Mental Hygiene and the National Research Council, should leave their names and addresses at the Registration Desk, or mail this information to the Josiah Macy, Jr., Foundation, 565 Park Avenue, New York, 21, N. Y. Please indicate specialty.





Soldier receiving first aid for a gunshot wound at an Aid Station located on the high knoll overlooking Massacre Bay, Attu.



Wounded men waiting at a Portable Hospital, somewhere in New Guinea, for evacuation, December 31, 1942.

# MEDICINE'S ALLIES

**M**ODERN military medical service requires teamwork on the part of a large number of individuals and of various groups of highly trained workmen. Medicine is a large family, the doctor, the nurse, the administrator, the corpsman, the maker of instruments and those who prepare the drugs which may be applied by the wounded soldier himself in the front-line of battle and in the hour of combat.

The modern military surgeon trained

View of Base Hospital somewhere in the Pacific reveals the cool yet airy canopy provided by the spaced palms which tower over the Quonset buildings. Construction battalions performed a near miracle in completing facilities in record time.





to a fine edge, ready for battle action has a group of assistants, nurses, field service officers and enlisted men, and equipment in the form of instruments and supplies. Without these his professional efficiency would be seriously handicapped.

The surgeon in battle carries with him a set of instruments, a few drugs and plasma; all units essential for emergency aid are prepared by the highest type of skilled workmen behind the scenes of action.

Those who fashion the articles which front-line medicine requires, indeed, without which there would be no story of the sulfa drugs, penicillin or plasma, play a fundamental and important role in the drama of modern medicine at the front.

There is a story which needs some day be told of the band of workers who prepare the doctors' tools and who make the supplies that work life magic in the



Hundreds of sick and wounded men have been transported from Guadalcanal by plane. The speedy air trip has saved many lives.



Administering blood plasma to a wounded soldier at a Portable Hospital located somewhere in New Guinea.

This is one view of the interior of a first aid station showing the medical supplies neatly and handily placed on shelves at the rear. The sturdy, prefabricated stations can be assembled quickly and are invaluable for emergency work.





American nurses just after their arrival aboard an Australian hospital ship, somewhere in New Guinea.



Doctor removing shrapnel from the brain of a soldier aboard a transport in Massacre Bay, Attu.



At dressing station near scene of action on Rendova Island Marine casualties receive attention as they pour in on litters.

surgeons' hands. The miracle of new hope for the desperately injured has been brought about by partnership between those who toil in laboratories and factories and those who administer the saving products.

The preparation of vaccines, plasma, drugs, of splints and instruments requires an exactness of skill, a precision of technique which permits no fault. The maker of books of medical science holds a similar ambition. He watches the technique of the doctor, records medicine in action, creates the printed story and arranges for its distribution to the medical profession at large and wherever medical science is taught. His life work may also be termed art and science since it is creative and productive.

Those responsible for medical supplies should belong to the same guild as those who carry them into battle action. They have the same goals; they know the same triumphs and defeats. They are complementary to each other. The success of one is the triumph of both; when one fails, both lose.

In accepting responsibility for fashioning and furnishing supplies to the doctors of our fighting men, the manufacturers of these supplies have called into council the highest authorities in the land. Less than the best is unsatisfactory to all.

Laboratories of medical research are not the sole interest of great foundations or medical schools. It is to the high credit of those who prepare medical supplies that they have joined hands in exploring new fields which offer some prospect of alleviation of human suffering and greater chance for life itself. Exploring the unknown in the enchanting field of research has more than any other aspiration cre-



ated a closer kinship between the doctor and the manufacturer. Here, they are colleagues in the same cause, they use the same blueprints, consult the same books for reference. They plan together—the one elaborates the material, the other applies it to the wound. This kinship is bound to become more intimate as time marches on and both will go further together than either might go alone. The results will be a greater medical service to our fighting men and to the sick and maimed of the entire world.

A doctor taking shrapnel from a soldier's back after removal from Attu Field Hospital to a transport.

Securely strapped in a metal basket a U. S. Army airman is transferred from a U. S. destroyer to an aircraft carrier for hospital treatment, after spending seven days on a raft in the Pacific.





# TECHNICAL EXHIBITS

## **AMERICAN HOSPITAL SUPPLY CORPORATION, Chicago (Booth 43).**

Vitomacs, an exclusive vitamin formula. . . . Derma-Fresh, an alcohol preparation for rubbing and massage.

## **AMERICAN SAFETY RAZOR CORPORATION, Brooklyn, N. Y. (Booth 39).**

Precision-made A. S. R. Surgeon's Blades are available in 9 sizes to fit all standard surgical handles.

## **AUSTENAL LABORATORIES, INC., New York (Booth 54).**

Surgical appliances of Vitallium, an alloy of cobalt, chromium and molybdenum. Skull plates, tubes for arterial and duct repairs, caps for hip and finger arthroplasty, and fracture plates, nails and screws, etc.

## **BARD-PARKER COMPANY, INC., Danbury, Conn. (Booth 53).**

Rib-Back Surgical Blades, Long Knife Handles for deep surgery, Renewable Edge Scissors, Formaldehyde Germicide and Instrument Containers, Transfer Forceps, Hematological case for obtaining bedside blood samples.

## **BILHUBER-KNOLL, Orange, N. J. (Booth 56).**

Metrazol, Theocalcin and Dilaudid, these and our other "Council Accepted" prescription chemicals, including Bromural, Lenigallol and Euresol are also available to the Army, Navy, and Public Health Service through the Treasury Procurement Service.

## **ERNST BISCHOFF COMPANY, INC., (Booth 5).**

Anayodin—highly effective, widely used therapy in Amebiasis and some forms of Colitis; Lobelin-Bischoff—efficient, clinically proven respiratory stimulant and Sas-Par for internal treatment of Psoriasis.

## **BURROUGHS WELLCOME & CO. (U. S. A.), INC., N. Y. (Booth 44).**

A representative group of fine chemicals and pharmaceutical preparations.

## **CAMBRIDGE INSTRUMENT COMPANY, INC. (Booth 45).**

A complete exhibit of cardiac diagnostic instruments, the compact, lightweight, portable "Simpli-Trol" model Electrocardiograph-Stethograph that produces electrocardiogram and stethogram separately or simultaneously. Cambridge Electrocardiographs for large or small hospital, research laboratory, clinic, or private office.

## **CAMEL CIGARETTES, New York (Booths 1 and 2).**

Photographs of equipment used in comparative tests of the five largest-selling brands of cigarettes. Representatives will be available to discuss research. Trans-Lux News will be supplied throughout the meeting.

## **CAMERON HEARTOMETER COMPANY, Chicago (Booth 6).**

Improved Heartometer, a scientific precision instrument for accurately recording systolic and diastolic blood pressure. It also furnishes a permanent graphic record of the pulse rate, the nervous functioning of the heart, the myocardial strength, as well as the functioning of the valves. The Heartometer clearly reveals heart disturbances in both early and advanced stages and is of great value in checking the progress of medication and treatments.

## **S. H. CAMP & COMPANY, Jackson, Michigan (Booth 33).**

A reproduction of the Camp Transparent Woman, complete line of merchandise for sacro-iliac, lumbosacral, dorso-lumbar, postoperative, visceroptosis, hernia and other specific conditions.

## **CLAY-ADAMS Co., INC., New York (Booth 42).**

New developments in surgical and laboratory instruments and supplies. In addition to the Cacoprene (synthetic rubber) catheters, a new line of demi-rigid Cacoprene D-R synthetic rubber catheters will be shown as well as anatomical charts, models, and medical educational material.

**CRESCENT SURGICAL SALES CO.,  
INC., New York (Booth 46).**

Complete line of Crescent Detachable Surgical Blades and Handles. There will be a carefully worked out plan of conservation of used blades in line with the war requirements.

**DEPUY MANUFACTURING COMPANY, Warsaw, Indiana (Booth 25).**

War time Fracture Appliances.

**THE COHO CHEMICAL CORPORATION, New York (Booth 23).**

Animated Pathological Ear Exhibit—the Auralgan Exhibit, model of the human auricle four feet high together with a series of twenty-four three dimensional ear drums.

**E. & J. MFG. COMPANY, Glendale, California (Booth 24).**

Demonstration of mechanical resuscitation as exemplified by the E. & J. Resuscitator. The respiratory rate and volume of respiration of the apparatus are controlled by the lungs of the non-breathing patient. Resuscitation-mask and catheter.

**THE FOREGGER COMPANY, INC., New York (Booth 50).**

Anesthesia Apparatus including specially designed units for Base and Field hospital use, Endotracheal Equipment and Oxygen Therapy Apparatus.

**THE GILLILAND LABORATORIES, INC., Marietta, Penna. (Booth 10).**

Antitoxins, Sera, Toxoids and Vaccines for treatment and prevention of Cholera, Diphtheria, Dysentery, Gas Gangrene, Tetanus, Typhoid Fever, Smallpox and other diseases.

**HOFFMANN-LA ROCHE, INC., Nutley, New Jersey (Booth 35).**

Syntropan, a new anti-spasmodic. Prostigmin. Other pharmaceutical specialties of rare quality. Vitamins.

**EFFERVESCENT PRODUCTS, INC., Elkhart, Indiana (Booth 30).**

Demonstration of urine-sugar analysis by the new Clinitest Tablet Method—simple, reliable, fast, single tests being made in less than one minute. A sensitive qualitative test giving dependable quantitative estimations up to 2%.

**C. B. FLEET CO., INC., Lynchburg, Va. (Booth 9).**

Phospho-Soda (Fleet); pure, stable, aqueous concentrated of the two U.S.P. phosphates.

**HANOVIA CHEMICAL & MFG. CO., Newark (Booth 3).**

A new Group Irradiation Lamp designed for irradiation of 15 men simultaneously.

**HOLLAND-RANTOS COMPANY, INC., New York (Booth 22).**

Koromex contraceptive specialties including the new Koromex Set Complete—a combination package, non-allergic pillow cases and mattress covers, a complete line of waterproof-protective garments and beddings, Tincture Nylmerate, a patent germicide for preoperative skin treatment and first-aid prophylaxis, samples of Rantex masks.

**KELLOGG COMPANY, Battle Creek, Michigan (Booth 12).**

Ready-to-eat cereals made from whole grain, restored or enriched, as specified in the United States Basic Seven Food Rules. The Kel-Bowl-Pac originally designed for troops on maneuvers is available in many sections in Kellogg's Variety Package. The package is the bowl.

**LEDERLE LABORATORIES, INC., New York (Booth 32).**

Pickrell Solution of Sulfadiazine, Sulfadiazine Ointment with Tannic Acid Jelly for the treatment of burns and a complete line of Sulfonamide Tablets, Globuline Modified form of Tetanus Antitoxin, Tetanus-Gas Gangrene Antitoxin.

**J. B. LIPPINCOTT COMPANY, Philadelphia (Booth 7).**

Thorek's new "Modern Surgical Technic" in a one-volume War Edition—also for active service—Ferguson's "Surgery of the Ambulatory Patient"; Bacon's reference "Anus, Rectum, Sigmoid Colon," and handbook "Essential of Proctology"; Tobias' "Essentials of Dermatology"; Becker's "Modern Dermatology and Syphilology"; and Kracke's "Diseases of the Blood."

**THE MACMILLAN COMPANY, New York (Booth 59).**

The new book of Dr. W. K. Livingston, "Pain Mechanisms," a Physiological Interpretation of Causalgia and its Related States.

## TECHNICAL EXHIBITS (Continued)

### MEAD JOHNSON & COMPANY, Evansville, Indiana (Booth 48).

Dextri-Maltose, Pabulum, Oleum Percomorphum and other infant diet materials.

### MEDICAL FILM GUILD, New York (Booths 63 and 64).

Talking papers in this year's program of "Medical Films that Teach"; through grants for postgraduate instruction, these films are available at no charge to any hospital or medical society meeting and to the medical services connected with the Armed Forces of the United States. Exhibition is also included at no charge under this plan.

### MERCK & CO., INC., Rahway, New Jersey (Booths 40 and 41).

Research, begun in the Merck Research Laboratories in the autumn of 1940, and carried on continuously since then, is devoted to the development of methods by which Penicillin may be produced in ever-increasing quantities. Every effort is being made to expand production further for the benefit of our Armed Forces and, as soon as adequate quantities can be made available, for civilian medical needs.

### THE WM. S. MERRELL COMPANY, Cincinnati (Booth 21).

Ceepryn, the new non-mercurial antiseptic, notable for its powerful, non-selective germicidal action, exceptionally low tissue toxicity, and unique detergent effect.

### THE C. V. MOSBY COMPANY, St. Louis (Booth 38).

New Publications will include Trueta's "Principles and Practice of War Surgery"; Selling's "Synopsis of Neuropsychiatry"; Bunch's "Clinical Audiometry"; Howles' "Synopsis of Clinical Syphilis"; Hughes' "Reconstructive Surgery of the Eyelids"; and Herrold's "Chemotherapy of Gonococcic Infections."

### THE NATIONAL DRUG COMPANY, Philadelphia (Booth 52).

Allantomide ointment for burns and wounds, and newer Allantomide developments, Allantomide with Sulfathiazole, Allantomide Solution with Ephedrine—with clinical photographs.

### NOVOCOL CHEMICAL MFG. CO., INC., Brooklyn, N. Y. (Booth 34).

Local and spinal anesthetics only, the new safer anesthetic Monocaine.

### PARKE, DAVIS & CO., Detroit (Booth 28).

Phemerol, a relatively non-toxic and non-irritating germicide and antiseptic; Vitamin Products; Sulfa Drugs; Despeciated Anti-toxins, and numerous other outstanding products.

### PETROGALAR LABORATORIES, INC., Chicago (Booth 57).

Petrogalar, an aqueous suspension of mineral oil of constant uniformity and excellent palatability.

### PHILIP MORRIS & CO., LTD., INC., N. Y. (Booth 27).

Demonstrates the method by which it was found that Philip Morris Cigarettes, in which diethylene glycol is used as the hygroscopic agent, are less irritating than other cigarettes.

### PICKER X-RAY CORPORATION, New York (Booths 18, 19 and 20).

The U. S. Army X-Ray Field Unit and the Army Air Corps Unit, now used by the United States and Russian Forces in all theatres of War. These units provide complete radiographic and fluoroscopic facilities.

### THE GEORGE P. PILLING & SON COMPANY, Philadelphia (Booth 31).

The Crutchfield Skull Traction Tongs for fracture dislocations of the cervical spine. Tocantin's Bone Marrow Transfusion Needles. Miller-Abbot Tubes for small intestinal intubation. Lemmon Continuous Spinal Anesthesia Apparatus. Jaw Fracture and Maxillo-Facial Surgery instruments. Apparatus for Pneumothorax and Pneumolysis and instruments for Thoracoplasty and Pilling-Made Bronchoscopic equipment patterned after that made for the various Chevalier Jackson Bronchoscopic Clinics.

### RARE CHEMICALS, INC., Fleming- ton, New Jersey (Booth 36).

Information regarding Eucupin, the local anesthetic-analgesic; Arsenoferratosé, hematinic and alterative; Gitalin, digitalis



## TECHNICAL EXHIBITS (Continued)

preparation: Optochin, specific in lobar pneumonia; Optochin Hydrochloride, specific in pneumococcal infections of the eye; Salsyl, analgesic, antipyretic, antirheumatic.

### **RIEDEL-DE HAEN, INC., New York (Booth 55).**

Pernoston sodium for intravenous pre-anesthetic medication and the Decholin sodium for determining circulation time; pure bile acid preparations Decholin, Degalol and Cholmodin.

### **S. M. A. CORPORATION, Chicago (Booth 26).**

Information on infant feeding and scientific vitamin products. Caritol Smaco, a new stabilized vitamin A preparation, and Elixir Ribranex Smaco, a delicious tasting B-complex product.

### **W. B. SAUNDERS CO., Philadelphia (Booth 58).**

Bockus' 3-volume work on "Gastroenterology," the Military Medical and Surgical Manuals, Shaar & Kreuz's "External Fixation of Fractures," Official U. S. Public Health Service Industrial Hygiene Manual, McCombs' "Internal Medicine in General Practice," Stieglitz' "Geriatrics," Cutting's "Therapeutics," Dry's "Cardiology," "Indigestion," Weiss & English's "Psychosomatic Medicine."

### **SCHERING & GLATZ, INC., New York (Booth 49).**

The Dispenser for Intravenous Solutions of Dextrose and Saline with the *Inner Drip*. The automatic drip chamber inside the container makes it easier to remove air from tubing. Reduces the technique of setting up an infusion to the simplest terms. Nothing to do but break the seal, plug in the tubing, hang up the dispenser and proceed; the drip adjusts itself.

### **SHARPE & DOHME, INC., Philadelphia (Booths 13, 14, 15, 16, 17).**

'Lyovac' Normal Human Plasma, Normal Serum Albumin (Human) and 'Sulfasuxidine' succinylsulfathiazole; biological products and pharmaceutical specialties.

### **J. R. SIEBRANDY MFG. CO., Kansas City, Missouri (Booth 37).**

The Goodwin Bone Clamp; the Griswold Reduction Frame, Pivot Leg Splint,

Davidson Director for hip nailing, and a complete line of splints including Thomas splints.

### **SINGER SEWING MACHINE CO., New York (Booths 60, 61, 62).**

Singer Surgical Stitching Instrument; developed in close cooperation with the surgical profession; has attracted much attention in recent medical conventions. Motion pictures of operations showing the instrument in use will be shown.

### **SMITH, KLINE & FRENCH LABS., Philadelphia (Booth 47).**

Benzedrine Sulfate Tablets offer "A therapeutic rationale which, in its very efficiency cuts across the old categories." It is, therefore, useful in many widely varied fields of medicine.

### **WALLACE & TIERNAN PRODUCTS, INC., Belleville, N. J. (Booth 8).**

Azochloramid preparations—including the new Surface Active Saline Mixture of Azochloramid.

### **WHITE LABORATORIES, INC., Newark (Booth 4).**

Vitamin preparations for vitamin prophylaxis and therapy.

### **THE WILLIAMS & WILKINS CO., Baltimore, Md. (Booth 11).**

Bailey: "Surgery of Modern Warfare," and the new two-volume Watson Jones: "Fractures." See Fletcher, Raven and Mangot: "War Wounds and Injuries" also Sir Arthur Hurst's "Medical Diseases of War." See the new "pocket Manson" Manson-Bahr: "Synopsis of Tropical Medicine" and the entirely new Grant: "Atlas of Anatomy."

### **WINTHROP CHEMICAL CO., INC., New York (Booth 29).**

Anesthetics, analgesics, antirachitics, antispasmodics, antisyphilitics, diagnostics, diuretics, hypnotics, sedatives and vasodilators.

### **JOHN WYETH & BROTHER, INC., Philadelphia (Booth 51).**

The Wyeth "Drip Apparatus" and "Phosphaljel" for the treatment of Peptic Ulcer. Also, Sulfur Foam Applicators for the prophylaxis and the treatment of Scabies and Chiggers.

## BACKGROUND AND HISTORY OF THE ASSOCIATION

A SWISS-BORN Surgeon General of the Wisconsin National Guard, Nicholas Senn, started the Association of Military Surgeons by inviting 50 Surgeons of the National Guard to what was described in the minutes as "A sumptuous repast" in Chicago, September 1, 1891. Then and there was formed the Association of Military Surgeons of the National Guard of the United States. The foresightedness of these early custodians of the welfare of our civilian soldiers is indicated by the fact that the intentions and purposes of the founders of the Association have suffered surprisingly little change during the past 52 years.

True, their numbers were augmented by the admission in 1894, to regular membership, of officers of the Medical Department of the regular Army and Navy, and of the United States Public Health Service, and the title, in consequence, changed to its present form. Those aims were and remain to increase the efficiency of the Medical Services of the Federal Government both in peace and war, by the further development of means to better care for the sick and wounded and for the prevention of epidemics. This is accomplished by the following procedures: (a) by mutual inspiration and improvement; (b) by



Surgeon General Nicholas Senn

maintaining military practice as a specialty, well defined and clearly recognized; (c) by constantly striving to improve military and naval medicine, surgery and hygiene; (d) by the creation of a living and growing body of medico-military literature available as a standard for permanent reference; (e) by encouraging acquaintance between medical officers of the several services; (f) by providing an interchange of views and ideas between these medical officers; (g) by establishing uniformity of procedure between the Medical Departments of the National Services and those of other countries; (h) by preserving a medico-military "esprit de corps"; (i) by maintaining the military position of the medical officer upon an equality in rank, authority, autonomy and initiative with that of other officers; (j) by encouraging legislation beneficial to the Medical Department of all Services; (k) by promoting a constant condition of readiness for duty in the Medical Departments of all of these Services.

The Association is the oldest of the several organizations representing branches of the United States Armed Services. Moreover, it is one of the oldest existing societies of Medico-Military Officers in the world. It is a venerable body which has won an honorable place in the realms of science. We, its members, are proud of it. Its worth was recognized and applauded in its early infancy by Grover Cleveland, who addressed the 4th meeting (1894), and in its sturdy youth by Theodore Roosevelt, who, in 1902, at the 11th Annual Meeting, said, in part: "The men of this Association combine two professions each of which is rightfully held in high honor by all capable of appreciating the real work of men—the profession of the soldier and the profession of the doctor. . . . It is a very necessary thing that there should be some professions, some trades, where the same demands are made upon the heroic qualities in a man, and whose demands are made alike upon the soldier and upon the doctor; and how much more upon those who are both soldiers and doctors—upon the men who have continually to face all the responsibility and all the risk faced by their brothers in the civilian branch of the profession, and who also in time of war must face the same risks, often exactly the same risks, that are faced by their brothers in arms whose training is to kill and not to cure.

"It has been my good fortune, Gentlemen, to see some of your body at work in the field; to see them carrying the wounded and the dying from the firing line, . . .

"I welcome you here and I wish to say a word of congratulation to you upon this Association. In all our modern life we have found it absolutely indispensable to supplement the work of the individual by the work of individuals gathered into an association. Without this work of the Association you cannot give the highest expression to individual endeavor."

In the intervening years many distinguished speakers have given outstanding addresses at meetings of the Association, but none was more




foresighted than the Presidential message given by Dr. Griffith, Medical Director of the Veterans' Administration, when he said, in 1936: "The records of the War Department show that the Draft boards rejected approximately 550,000 men. . . . The Association of Military Surgeons should support efforts directed at routine and periodic physical and neuropsychiatric examinations. Such examinations would be apt to disclose latent and existing disabilities in the younger age groups; in the older age groups it would result in the detection of such diseases as cancer, diabetes mellitus, and a number of other conditions which if diagnosed in their incipient stages might be amenable to effective treatment. . . .

"The Association of Military Surgeons should encourage research in connection with the cause and treatment of such diseases as influenza, pneumonia, epidemic cerebrospinal meningitis, realizing that these diseases were responsible for such morbidity and mortality during the war and a great deal of residual disablement following the war. The probabilities are that they will contribute much to the morbidity and mortality of the next war.

"Our Association should support legislation for medico-military preparedness; for full complements of commissioned medical personnel in the military services; and for adequate facilities and equipment, so that we as a nation will be ready for the next emergency."

In 1937 Rear Admiral P. S. Rossiter, Surgeon General of the Navy and President of the Association, said: "This Association is the only representative making any attempt at organized action among the medical, dental, sanitary, veterinary and administrative officers of the various services. All other branches of the Service are well organized and represented before Congress. The officers of the Medical Departments of the Federal Services are not. A prevailing opinion among many medical and

**THE ASSOCIATION OF**  
**Military Surgeons**  
**OF THE UNITED STATES**  
ORGANIZED, 1801. INCORPORATED BY CONGRESS, 1902.  
*Annually Elected Officers:*  
*That Captain John S. Richard*  
*Medical Corps, Army of the U. S.*  
*in accordance with the Constitution of the Association*  
*of Military Surgeons of the United States, has been*  
*elected to date from the first day of January, A.D. 1942,*  
*an Active Member of the Association and is*  
*entitled to all the privileges and benefits thereof.*



*Given under our hands and the Seal of the*  
*Association, at Washington, District of Columbia,*  
*on the eighteenth day of December, 1942.*

*W. C. [Signature] President*  
*James [Signature] Secretary*

**Membership Certificate, used in this form since the Association adopted its present name.**

dental men seems to be that this organization is just another Professional Society; they claim that they belong to so many different societies—State, County, Specializing, etc.—that they do not feel able to join another. This is not just another Medical Society. I have stated before, it is the only organization which could be made effective in looking after the interests of the military professional man.”

Major General C. S. Reynolds, Surgeon General of the Army, gave his Presidential address in 1940, after the full fury of the war had been unleashed in Europe. Among his remarks were: “Our Association has been and will continue to be the forum for the consideration of medico-military affairs. Through years of peace this Association has carried on with a resolute purpose based on clear vision of the importance of its cause and determination to withstand the withering effects of public indifference to military affairs always endured during the years between wars. Right now we are witnessing as a result of only a few months of war, a gigantic sum total of human distress for the relief of which medicine will play a leading role.

“Medicine’s part in American history is a tribute to the medical profession. Medical men have always responded in an emergency and they are doing so today. . . . In 1917 we started with a regular Army Medical Corps of six or seven hundred. At the time of the Armistice there were in uniform 31,000 medical officers, 5,000 dental officers, 2,000 veterinary officers. . . .

“As I contemplate modern war, I do not see the firing line as the first objective or even the most important one in military preparedness. . . . This attack will strike at the vital points of the nation, its industrial centers, its ports and utilities, rather than at the periphery of its fan-shaped military structure. The theatre of operations will be spread from the firing line to the homestead. And it is exactly in these dimensions that medicine will be required to extend its service in a future war.

“Since the World War substantial progress toward medical preparedness has been made by the Army and Navy. . . . The President has appointed a medical Advisory Committee of five, including the Surgeons General of the Army, Navy, and Public Health Service to cooperate with the National Defense Advisory Commission. As it did during the World War . . . so now the American Medical Association is cooperating with the Federal Medical Services together with the American College of Surgeons. These services are especially valuable and necessary in the classification and selection of the medical profession for specific duty, such as the examination of the draft and in formulating policies relating to the professional service. . . .

“Medicine in Europe has been unable adequately to cope with the military situation because of the effectiveness of new weapons and changed

methods of warfare, political as well as strategic and tactical. . . . It is a war of movement which brings complications to our tactical dispositions and our medical equipment and transportation, particularly the latter. So far, particularly in France, there has been a lack of transportation and of hospitalization. The situation emphasizes the importance of immediate, individual first-aid to control hemorrhage and to prevent sepsis. . . .

"No general overhauling of our medical organization for field service should be attempted except to adjust it to our own modernized combat forces, particularly mechanized units. From then on changes must be made to meet military situations so far as can be determined from time to time. A campaign in one country may differ markedly from that in another, but the common feature of all military campaigns will probably be the airplane which is a new weapon comparable in importance with the early use of gun powder. . . .

Active membership in the Association is open to (a) those who are, or have at any time been, commissioned officers in the Medical Department (or Service) of the Army, the Navy, the U. S. Public Health Service, the National Guard, the Organized Reserves, the U. S. Volunteers, and acting Assistant or Contract Surgeons of these Services; (b) regularly appointed members of the Medical Service of the Veterans' Administration and those who have been such; (c) those who have been duly elected members of the Air Service Medical Association and of the Medical Veterans of the World War; (d) officers of the Military Medical Services of other countries, and,

# THE MILITARY SURGEON

JOURNAL OF  
THE ASSOCIATION OF MILITARY SURGEONS  
OF THE UNITED STATES

EDITED BY  
JAMES M. PHALEN  
Colonel, U. S. Army, Ret.

---

VOLUME 87  
July-December, 1940

---

WASHINGTON, D.C.  
THE ASSOCIATION OF MILITARY SURGEONS  
OF THE UNITED STATES  
1940

Title page of Volume 87 of THE MILITARY SURGEON.  
This was the first volume edited by Colonel Phalen.

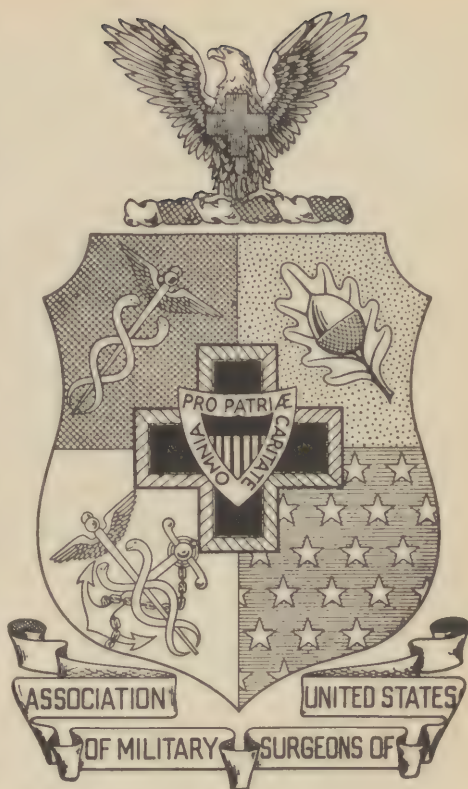


(e) Medical and Dental officers of the U. S. Indian Service.

Among the outstanding accomplishments of the Association is the continuous publication since 1891 of a journal which, initiated as an annual, in 1901 became a quarterly, and shortly thereafter a monthly. "The Military Surgeon," a periodical of over 100 pages, has included contributions by practically all of the highest-ranking medical officers and some of the greatest authorities in civilian life during its history.

As Nicholas Senn intended, Military medicine is a specialty, but one that suffers from a handicap that no other specialty has to face. The lessons learned the hard way, in the fierce light of warfare, are all too often forgotten in the calmer and less stimulating days of peace. Thus, when war once more flares forth,

as it always has done, much has been forgotten. Much has been lost and must be learned anew—again in the hard way. There must be, reasoned the father of our Association, a way to preserve these lessons, and not only that, but to create new ideas. There is no better means to attain such an objective than to have meetings of men of similar tastes and problems, and likewise by means of the written word, exchange ideas and thus create, after the fashion of the coral, new structures.



COAT OF ARMS OF THE ASSOCIATION



An early print of THE PENNSYLVANIA HOSPITAL, established in 1751  
and oldest hospital in the United States.

## PHILADELPHIA AND MILITARY MEDICINE

**I**n view of its rich heritage and experience it is not surprising that Philadelphia should occupy today a leading position as a medical center. Indeed, very few communities can point to such a wealth of material available to both the student and graduate of medicine as well as the laity. Philadelphia has five great undergraduate schools of medicine, an outstanding graduate school, and more than forty excellent general hospitals.

The Pennsylvania Hospital at 8th and Spruce Streets is the oldest institution of its kind in the country, having been established in 1751. The University of Pennsylvania School of Medicine, founded in 1765, is the oldest medical school in the United States. Jefferson Medical College traces its origin to the year 1825. In addition, Blockley (now the Philadelphia General Hospital) originated in 1732 and has exerted a profound influence on medical progress through the training it has afforded those engaged in the study and practice of medicine.

With this background and rich experience, it is natural that Philadelphia should play a leading part in medical progress and that its contributions to both civilian and military medicine should be numerous.

### EARLY HISTORY

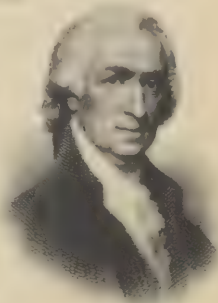
As far back as the late 18th century Philadelphia physicians have been conspicuous in the history of our country. Among the signers of the Declaration of Independence was Dr. Benjamin Rush who served as Physician General of Hospitals during the American Revolution. The first Surgeon General of the Army was Dr. John Morgan of Philadelphia, who served as Director General and Physician-in-Chief of the American Army from 1775 to 1777. He was succeeded in this position by another local physician, Dr. William Shippen, who served from 1777 to 1781. It is of interest to note that Drs. Morgan and Shippen, along with Dr. Rush, were responsible for the establishment of the University of Pennsylvania Medical School in 1765.

Benjamin Franklin is associated with medicine through his inventions having to do with bifocal lenses and flexible catheter, and his letters on subjects pertaining to medicine.

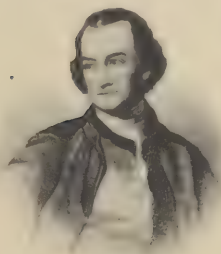
It is a pleasure to state that Major General James C. Magee, Surgeon General of the Army from 1939 to 1943, is a native of Philadelphia.

The name of Assistant Surgeon Joseph J. Woodward of Philadelphia should be mentioned. Dr. Woodward was assistant to the curator of the Army Medical Museum and attained international fame in the field of Photomicrography and its use in pathology. The application of this apparatus to military medicine was an important one. Dr. Woodward was the first medical officer of the Army to become President of the American Medical Association.

The first military hospital of the Army was organized in Philadelphia in 1861 at about the same time as the first one of the Civil War was started in Washington. It was located on Christian Street between 9th and 10th, and eventually became a unit of the Military Hospital of Philadelphia, which, from the standpoint of size, was the second largest in the East. It was during the Civil War that such prominent Philadelphia physicians as Drs. S. Weir Mitchell and W. W. Keene, in collaboration with Dr. George R. Morehouse, made valuable studies on gunshot wounds and nerve injuries at the Union Base Hospital in Philadelphia. The impor-



DR. WILLIAM SHIPPEN, Jr., whose father, also a physician, was one of the signers of the Declaration of Independence



DR. JOHN MORGAN  
First Physician-in-  
Chief to the  
Continental Army



## PHILADELPHIA AND MILITARY MEDICINE (Continued)

---

tant results of this study were published in 1864 and this material proved of inestimable value to military medicine.

Colonel John S. Billings, although a native of Indiana, was at one time in charge of the Phipps Institute of the University of Pennsylvania. He was the principal founder and main person responsible for the growth of the Army Medical Library and its Index Catalogue. This library provided the impetus for the development of other American medical libraries. Billings is regarded as the world's foremost medical bibliographer as well



DR. BENJAMIN RUSH, who, with Dr. Shippen, helped found the University of Pennsylvania Medical School

as a brilliant military surgeon. His *Index Medicus* eventually was absorbed with a similar publication of the American Medical Association to become what is at present the *Quarterly Cumulative Index Medicus*.

Dr. James McHenry settled in Philadelphia in 1771 from Ireland. He was Secretary of War from 1796 to 1800. He studied medicine under Benjamin Rush at the University of Pennsylvania and as a member of Congress from Maryland he signed the Declaration of Independence. He was at one time Secretary to General Washington and saw considerable active service in the Army during the Civil War. Fort McHenry near Baltimore is named in his honor.

With respect to the medical corps of the U. S. Navy, Philadelphia has also made outstanding contributions. The name of Edward Cutbush is very closely identified with the early history of the Naval medical corps. He was Surgeon General of the Pennsylvania State Troops in 1794 and subsequently entered the Navy. In 1803 he established the first U. S. Naval Hospital, located in Sicily, and was very instrumental in the eventual organization of the first Naval Hospital in the United States in 1827 at Norfolk. He was a most able hospital administrator and was also responsible for the introduction into the Navy of its first pharmacopeia compiled from various medical institutions. Cutbush was probably the first surgeon in the Navy to vaccinate against smallpox. Although this occurred in 1799 it was not until 1848 that this procedure became compulsory. He wrote the first book on Naval medicine by an American, dealing with such subjects as food, clothing, prevention of disease, and the organization and administration of military hospitals. He was the senior member of the first board established in 1824 to conduct professional examinations for candidates for the medical corps. In 1815 he proposed a plan for the organization of the medical department which was adopted 27 years later.

## PHILADELPHIA AND MILITARY MEDICINE (Continued)

---

William P. C. Barton was the first Surgeon General of the United States Navy in his capacity as first Chief of the Bureau of Medicine and Surgery from 1842 to 1844. The title of Surgeon General was not created until 1869. He was outstanding for his accomplishments as an organizer and administrator. During his term as Surgeon General he established a medical library for each Naval medical unit. He was also a senior member of the Naval Examining Board.

### WORLD WAR I

During World War I many Philadelphia physicians made valuable contributions to the literature on the subject of surgery which have been of extreme importance to military medicine. Some 400 Philadelphia physicians were commissioned in the various branches of the armed forces and served both in this country and abroad. The following hospitals organized units which served during the last war and comprised both nursing and medical personnel. Base Hospital 10 (Pennsylvania), Base Hospital 34 (Episcopal), Base Hospital 20 (University), and Base Hospital 38 (Jefferson). Ten Philadelphia physicians are known to have lost their lives while serving their country, eight of whom were in the Army Medical Corps and two in the Navy. Among the latter was Lieutenant Commander Lindsay C. Whiteside who went down with the U. S. S. *President Lincoln* while supervising the transfer of wounded to lifeboats. The names of these ten physicians appear on a memorial tablet in the Philadelphia County Medical Society.

### WORLD WAR II

With the advent of World War II, new and increasingly greater responsibilities have been placed on the medical corps of the services. As the number of men in the fighting forces has increased, so has the medical personnel needed to keep them fit for duty. Furthermore, due to the global nature of the present conflict, new dangers and conditions have faced our fighting forces in the



An old view of Blockley from across the Schuylkill River. This institution, now the Philadelphia General Hospital, has had an important influence on medicine throughout the country

## PHILADELPHIA AND MILITARY MEDICINE (Continued)

---

form of tropical diseases, climatic changes, and the need for speed and the greater use of mechanical equipment in battle. Chemical warfare and aviation medicine have also come in for their due share of consideration. The medical profession has been both anxious and ready to assume its obligations in meeting these varied problems.

Philadelphia Medicine has more than assumed its share of this job. Approximately 1,000 local physicians have already left their civilian practices to receive commissions in all branches of the Armed Forces. This has naturally placed a terrific strain on the physicians remaining at home with respect to the care of the civilian population, accelerated teaching work in medical schools, and increased hospital duties. Probably no other single community in the country has had to face the same problems as those facing Philadelphia due to its position as a teaching and hospital center. Many of our leading physicians are giving voluntarily of their time and service to the war effort, along with physicians from other parts of the country, through membership on important committees such as the Committee on Medical Research of the National Research Council, and many other advisory groups to the Surgeons General and other governmental agencies.

Local Draft Boards, Induction Boards and Civilian Defense activities are other wartime organizations requiring the best which Philadelphia medicine can offer. Approximately 400 physicians are assigned to Local Draft Boards and an additional 200 specialists are giving of their services to the local Examining and Induction Board.

Philadelphia physicians are serving in many of the present fighting zones in cooperation with their professional comrades from other parts of the United States. Camps dotted throughout the United States have at one time or another seen Philadelphia physicians in their medical department. Army Base Hospital Units from the University, Jefferson and Pennsylvania Hospitals are at present serving overseas and many local physicians are connected with other Army and Naval hospital units. It is with pride that we call attention to the fact that the medical personnel of the hospital ship U. S. S. *Solace*, now serving in the Pacific, was at one time comprised of Philadelphians.

Philadelphia teaching institutions are giving special courses to both Army and Navy medical personnel in order to fit them for more efficient service. Our own Naval Hospital, established in 1918, is not only taking care of the medical needs of the sick and wounded, but is providing post-



My dear friend

The winter approaches, the sick will suffer more, nay will perish, unless timely care is paid to provide for them proper winter apartments. The Congress have desired me to attend to those sick that are on this side of Hudson River. But Dr. Morgan has directed his officers to follow his directions till they receive written orders from him or your Excellency to the contrary. I pray you will relieve me from my present disagreeable suspense & direct whether I am to superintend & provide for all.

LETTER FROM DR. SHIPPEN TO  
GEN. WASHINGTON, OCT. 29, 1776

My dear & hon'd Sir The winter approaches, the sick will suffer more, nay will perish, unless timely care is paid to provide for them proper winter apartments. The Congress have desired me to attend to those sick that are on this side of Hudson River. But Dr. Morgan has directed his officers to follow his directions till they receive written orders from him or your Excellency to the contrary.

I pray you will relieve me from my present disagreeable suspense & direct whether I am to superintend & provide for all the sick on this side, as I think the Congress intend, or only those of the flying camp & militia in Jersey as I was first appointed for.—Your speedy answer & orders will be thankfully rec'd and punctually obey'd by My dr General Your affecte & Very humb. Serv. W. Shippen Jr.

forces fit, care of the wounded, saving lives, and at the same time to maintaining adequate medical care at home for the civilian population. Philadelphia Medicine is happy to assume its share of this job and place its far flung medical resources at the disposal of our Government. American physicians, 50,000 strong, superbly trained, with their equipment of instruments and medicines, are marching side by side with our fighting forces to Victory.

graduate teaching on an accelerated basis to large groups of Naval medical officers from all parts of the United States.

A Philadelphia physician has the distinction of being the first woman receiving a commission in the Army Medical Corps, and many more woman physicians from this area will in all probability join the Armed Forces. Many of our great research institutions and pharmaceutical organizations are devoting a great deal of their time and energy to solving problems connected with the war effort. The ranks of the U. S. Public Health Service have been filled by many local physicians who are engaged in the prevention of disease among both the Armed Forces and civilian population at home and abroad. Philadelphia dentists have responded nobly to the needs of the Surgeon General for this type of specialized medical training and experience.

American Medicine is facing one of the greatest opportunities in its history with respect to the present emergency. This opportunity involves the obligation to provide the best that medicine can offer to keep our fighting

# CRADLE OF LIBERTY



1  
←



2  
←

**H**ERE in Philadelphia are national historical shrines that, particularly at this moment, remind us of the great and practical idealism on which were based the foundations of this nation.

Here is Carpenters' Hall where spokesmen of the colonies first gathered to raise their voices to protest oppression and to give utterance to the ideals that brought a great nation into being.

Here is Independence Hall where our forefathers had the courage to place their signatures to a document proclaiming to the world that they would die to maintain their rights to life, liberty and the pursuit of happiness.

Here is the Liberty Bell which proclaimed the enduring liberty of a new nation.

Here is the birthplace of the American Flag.

Nearby is Valley Forge and its memories and evidence of the darkest days of the Revolutionary War, where hope was renewed and ultimately led to victory.

The country has grown great since then. Its power and leadership are felt everywhere; the principles born here are carried to the four corners of the earth.

Here you will have the opportunity to place your hand upon the cool bronze of the Liberty Bell, our nation's symbol of independence and liberty. And here you can renew your contact with those ideals for which our men and women are fighting the world over.



1—The Liberty Bell. 2—Independence Hall. 3—Carpenters' Hall. 4—The Betsy Ross House. 5—The Memorial Arch at Valley Forge.





## PLACES YOU WILL WANT TO SEE...



1. Philadelphia's Parkway, a thoroughfare lined with trees and leading from the Philadelphia Museum to City Hall is well worth a visit. Lined with modern museums and other cultural institutions, it has been developed with a view to harmony of design in its buildings without sacrificing diversity.

2. Philadelphia's magnificent Art Museum, situated at the head of the Parkway, stands not only as a memorial to the Philadelphia artists whose names are practically a record of American painting, but is a treasurehouse of the best in the Arts the world over, including some famous collections which have taken refuge here since the war swept over Europe.



3. Nature has made Philadelphia one of the world's great seaports, with wide, deep channels leading to the sea. This port is playing its part with ever-increasing tempo, in acting as a funnel through which many thousands of tons of war materials are shipped to the fighting fronts weekly.



4. The Franklin Institute is a magnificent memorial to Dr. Benjamin Franklin's genius, a museum of science and a living institution, as he would have liked it. Here the whole of man's scientific achievement is shown in exhibits which live and move. At present it houses a number of projects which are aiding the war effort.

5. The University of Pennsylvania with its wide diversity of undergraduate and professional schools, demonstrates the versatility of Benjamin Franklin and the practical philosophy which still guides us in his "Poor Richard Almanac."

6. The University of Pennsylvania Museum contains one of the largest and finest ethnological and archeological exhibits in the world, with particular emphasis on the remains of Pre-Columbian America, Babylonian, Chinese, and Egyptian relics.

7. Philadelphia College of Physicians, founded in 1787, houses, in addition to its noted library, historic portraits and memorabilia of great medical men, together with a special exhibit prepared for the Military Surgeons' Convention.



## IN PHILADELPHIA



# ACKNOWLEDGEMENTS BY THE ASSOCIATION

THE officers of the Association deeply appreciate the interest and loyal support of the many individuals who worked so diligently to make the present meeting an unqualified success.

The Association herewith extends its word of thanks to Captain Joseph A. Biello, General Chairman, and to each member of the numerous committees working under his Generalship.

The Association desires to express its gratitude to The Honorable Bernard Samuel, Mayor of Philadelphia, and to the numerous officials who by their generous interest made the visit of those attending the convention such a pleasurable experience.

The Association is particularly indebted to the doctors and dentists of Philadelphia for the Smoker and program of entertainment on the Thursday evening schedule of events.

The Association herewith extends its appreciation to the officers and members of the Emergency Aid of Pennsylvania and the Navy League Service for the innumerable duties which they performed throughout the entire program.

The publicity for the meeting has been under the direction of the local committee on Publicity and Public Relations. This committee has cleared all releases. It has established contacts with numerous representatives of the press who have kept the public informed of the significant highlights of the convention.

The Association herewith desires to express its appreciation for the professional assistance furnished in the field of publicity by interested friends of the Military Surgeons.

The Association desires to express its appreciation to the management of the Bellevue-Stratford Hotel for its courteous and helpful assistance.

The commemorative program and souvenir menu, created by one of the nation's topflight designers, were made possible by a group of medicine's allies in Philadelphia. To the following who have most generously entered into the spirit and support of this meeting, the Association of Military Surgeons herewith extends its grateful thanks:

LINCOLN MCNEIL LABORATORIES  
Philadelphia

MERCK & CO., INC.  
Philadelphia

NATIONAL DRUG COMPANY  
Philadelphia

SHARP & DOHME, INC.  
Philadelphia

SMITH, KLINE & FRENCH LABORATORIES  
Philadelphia

JOHN WYETH AND SONS  
Philadelphia



# GENERAL INFORMATION

---

## HEADQUARTERS

**H**HEADQUARTERS for the 51st annual convention of the Association of Military Surgeons is the Bellevue-Stratford Hotel. All Forum Lectures, Teaching Panels, Moving Pictures, Scientific Exhibits, Technical Exhibits, Committee Meetings, and Business Meetings will be held in the Bellevue-Stratford.

## REGISTRATION

All members and guests of the Association are urged to register at the Registration Booth, 18th floor, immediately upon arriving at the hotel.

Visitors to the convention who are not members of the Association are asked to register. Third and fourth year medical students are invited to all events of the program and they are likewise requested to register. Members of the staffs of various Philadelphia hospitals, interns and special students are invited to attend all events of the program. The Association desires that they likewise register.

## FORUM LECTURES

The topics to be presented on the list of Forum Lectures are each of great importance and the speakers have been most carefully chosen. In order that each presentation may be given equal consideration by the audience, the speakers will limit each presentation to 15 minutes. A flashlight on the speakers' stand, controlled by an aide, will light up 2 minutes before the end of the talk to let the speaker know he has 2 minutes in which to conclude his address.

The Forum Lectures will all be held in the Rose Garden, 18th floor. These will begin Thursday at 2 p. m. and will last until 4.30 p. m. The lectures will convene again on Friday and Saturday at 9.30 a. m., and Friday at 2 p. m.

## PROJECTION AND SCREEN

A projection apparatus for showing slides will be available to speakers. It is important that slides be given the operator before the opening of the meeting. Speakers will please call promptly for them at the close of each session.

## GENERAL INFORMATION (Continued)

---

### TEACHING PANELS

Teaching Panels will be held Thursday and Friday afternoons convening in the several specified rooms at 4.30 promptly. On Friday, a series of Teaching Panels will also be conducted commencing at 12.45 p. m.

Each chairman who will be in charge of a panel has been specially selected because of his broad interest and wide experience which qualifies him as an authority. He will open the panel discussion with a 10-minute résumé of the subject, following which written questions will be collected from the audience.

The experts assisting the chairman of each panel have, in the majority of cases, had practical experience in War Medicine at the front or are carrying on important clinical and laboratory investigations in the field of military medicine at leading medical centers of the nation.

### MOTION PICTURES

Two series of motion pictures, going on simultaneously with the forum lectures will be an important instructive feature of this meeting. Series A will be run in the Ballroom, and Series B in the Clover Room.

### PUBLICATION OF PAPERS

Each speaker is requested to leave the manuscript of his presentation with the secretary in attendance before leaving the platform. The list of important papers that have been scheduled "to be read if time permits" will be published with the other papers of the forum series in the official publication of the Association, *The Military Surgeon*.

The "proceedings" of the various teaching panels will be published in future issues of *Clinics*.

### BUSINESS MEETINGS

The first business meeting will convene at 12 noon in the Ballroom of the Bellevue by order of the President of the Association. All members of the Association are urged to be present at this important meeting.

The second business meeting will be held in the Rose Garden following the close of the Forum Lectures 12.30, Saturday. All members should attend.

### ANNUAL DINNER

Tickets for the annual dinner of the Association are available at the Entertainment Booth, located in the main lobby. Ladies are invited to attend the dinner. There is a nominal charge of \$4.00 per ticket.

## **GENERAL INFORMATION** *(Continued)*

---

### **RADIO**

As the speeches by Sir Alexander Hood on Thursday evening and that of Admiral William D. Leahy on Friday evening are to be delivered to the nation through a nation-wide broadcasting hook-up, it is essential that the schedule of the program be held strictly to the time assignments. The cooperation of the audience will be deeply appreciated.

### **SPECIAL EXHIBITS**

A number of interesting and important meetings and exhibits which may attract members of the Association are being held at the same time in Philadelphia. The College of Physicians, 19 South 22nd Street, will have a special library exhibit. The Mutter Museum has a large number of anatomical specimens showing war wounds of significant interest to Military Surgeons (located at the College of Physicians).

Franklin Institute, 20th and Benjamin Franklin Parkway, is noted for its Planetarium and scientific exhibits showing various modern methods being used in industry and science in the war effort.

### **PHILADELPHIA CHURCHES**

Philadelphia has many cathedrals and churches of outstanding beauty and dignity. All denominations extend to the members of the Association and others attending the convention a cordial invitation to attend religious services scheduled during the week-end of the convention. In Philadelphia's churches and cathedrals some of the world's finest religious music may be heard.

### **PHILADELPHIA CLUBS**

The leading clubs of Philadelphia have extended greetings to the Association through the local committee. Any members or guests attending the convention will be cordially received. Credentials may be obtained at the Information Booth.

### **FAMOUS RESTAURANTS**

There are numerous eating places in Philadelphia where connoisseurs may enjoy fine food, wines of rare vintage and unusual delicacies, the pride of nationally famous chefs. No one should leave Philadelphia without sampling the dishes which have made this city a center in the art of dining.



## **GENERAL INFORMATION** *(Continued)*

---

### **MISCELLANEOUS**

A Bulletin Board will be located in the lobby of the hotel where special announcements will be posted as received.

Lost and found articles may be applied for at the Information Booth, located in the main lobby.

All individuals expecting telegrams and special messages should leave their names at the Registration Desk.

The Entertainment Booth will have tickets available for the Philadelphia Orchestra concerts Friday afternoon and Saturday evening. The Entertainment Booth will also have information regarding golf clubs, theatre tickets and so on.

### **SPECIAL EXHIBIT AT THE COLLEGE OF PHYSICIANS**

A special exhibit at the College of Physicians in Philadelphia of interest to the members of the Association has been arranged in the Mutter Museum of the College of Physicians, 19 South 22nd Street.

This consists of a large number of instruments used in former wars, as well as many important and instructive anatomical specimens. Members of the Association and guests are cordially invited to visit the exhibit.

The library of the College of Physicians, one of the largest and most complete in the world, is likewise open for inspection and will have on display a number of rare incunabula.



Above: Exposure cases placed in improvised hospital when wards became overcrowded, Attu

Top right: Examining wounded Jap prisoner, New Guinea

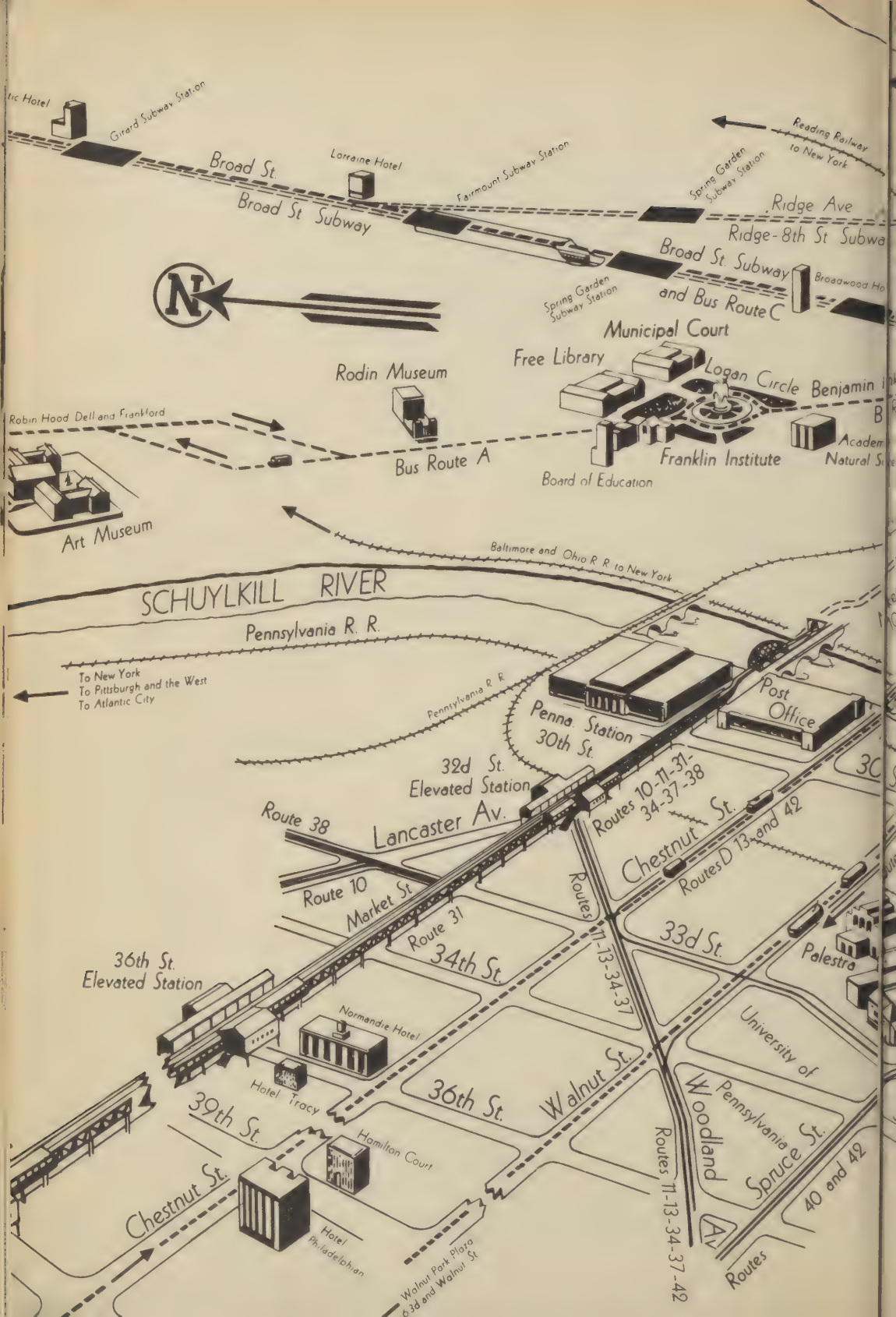


Center right: Performing appendectomy on transport off Attu

Lower left: Hoisting a casualty from barge to transport off Attu

Lower right: Administering plasma to wounded Marine aboard hospital ship off Solomons





SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

Franklin Institute

Board of Education

Bus Route A

Rodin Museum

Art Museum

SCHUYLKILL RIVER

Pennsylvania R. R.

To New York  
To Pittsburgh and the West  
To Atlantic City

Baltimore and Ohio R.R. to New York

Reading Railway  
to New York

Broad St

Lorraine Hotel

Fairmount Subway Station

Spring Garden  
Subway Station

Ridge Ave

Ridge-8th St Subway

Broad St Subway

Broad St Subway  
and Bus Route C

Broadwood Ho

Municipal Court

Free Library

Logan Circle

Academy  
Natural Sci

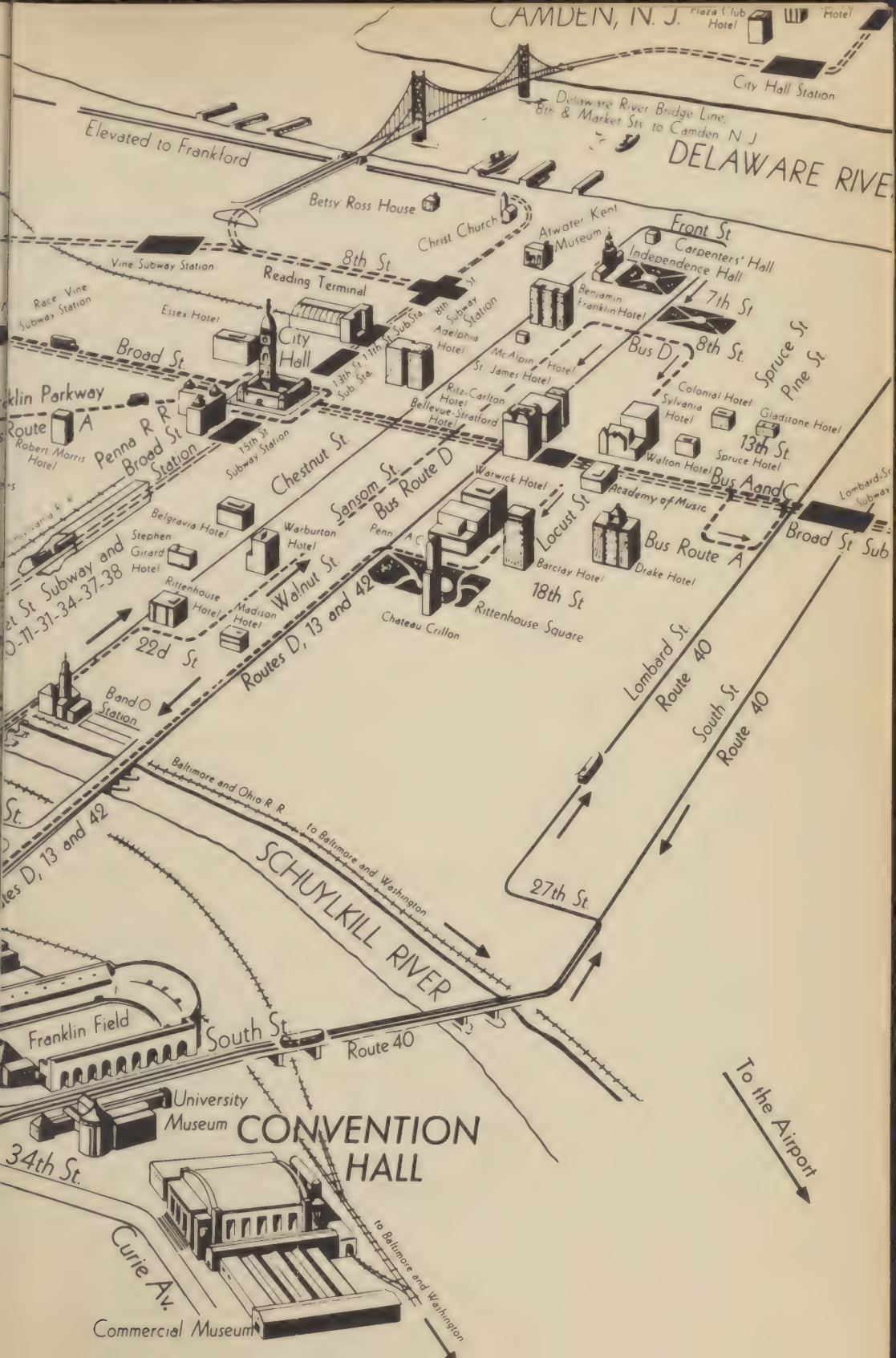
Franklin Institute

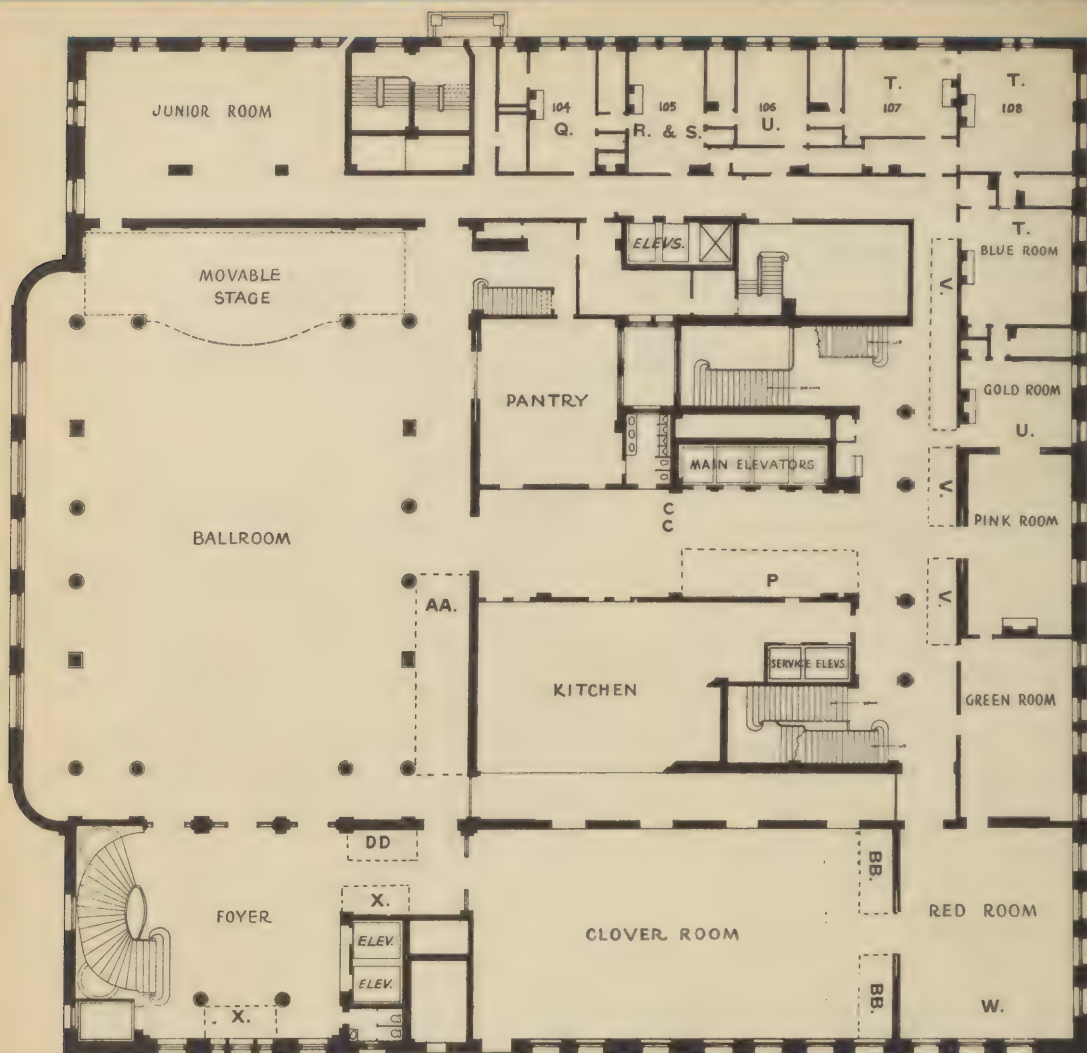
Board of Education

Bus Route A

</







**BELLEVUE-STRATFORD HOTEL—Plan of 1st or Ballroom Floor**

### KEY TO EXHIBITS

#### Booth Number

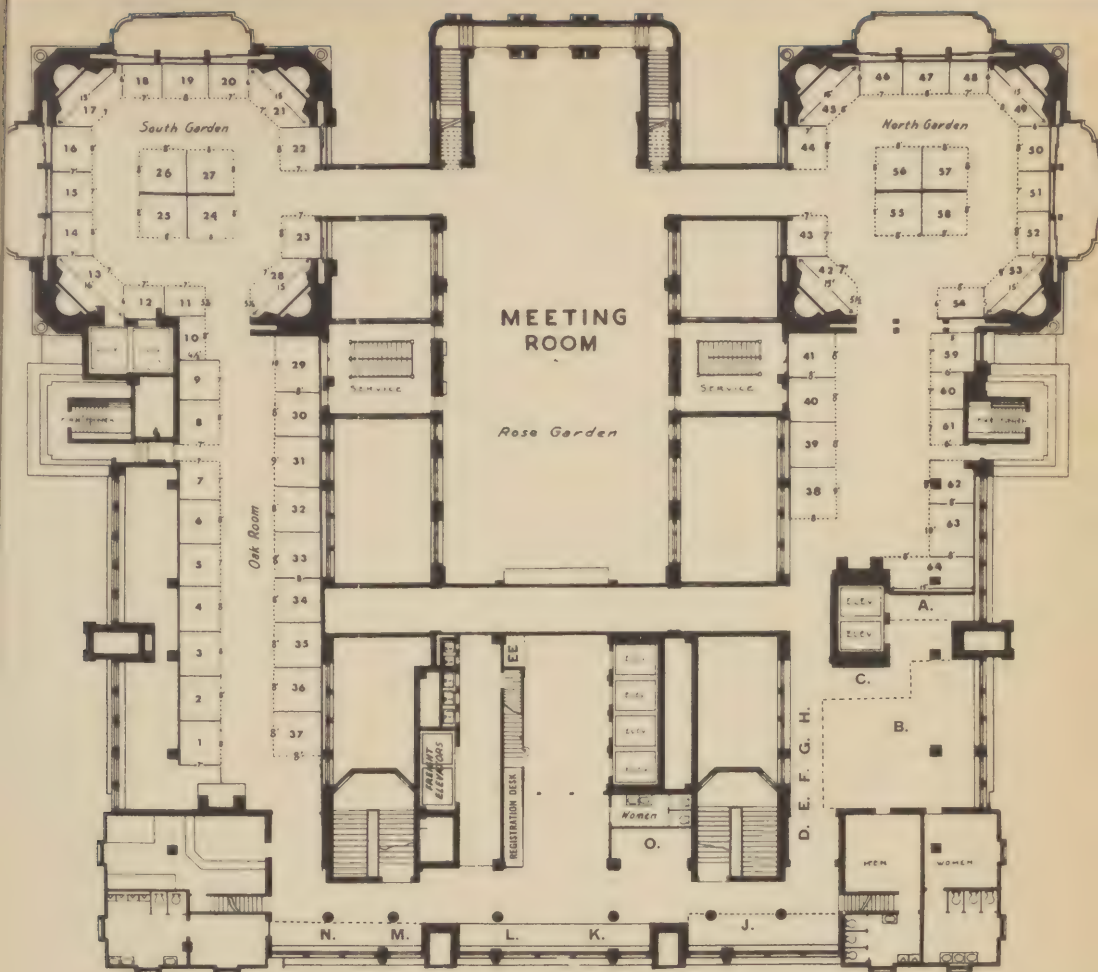
- A. Amputations
- B. Convalescent and Rehabilitation Training Program in U.S.A.A.F. Hospitals
- C. Triple Dye Treatment of Burns
- D. Compression Therapy Treatments
- E. A New Apparatus for External Fixation of Fractures
- F. Carcinoma of the Rectum and Colon
- G. Skeletal Fixation in Fractures of the Mandible
- H. Operations on Kidney, Prostate and Bladder
- J. Veterans Administration

#### Booth Number

- K. Tuberculosis Finding at the Philadelphia Navy Yard
- L. Radiologic Aspects of Spondylolisthesis
- M. The Administration of Blood and Other Fluids via the Bone Marrow
- N. Mustard Gas Poisoning; Trench Foot; Evolution of the Gas Mask
- O. Philadelphia and Military Medicine
- P. War Injuries Exhibit
- Q. Plasma
- R. Serum Studies
- S. Transplantation of Tissues; Reconstructive Surgery
- T. Army Service Forces

#### Booth Number

- U. Exhibit of Royal Canadian Army
- V. Army Medical Museum
- W. National Naval Medical Centre.
- X. U. S. Public Health Service
- Y. U. S. Naval Hospital, Phila. (on main floor)
- Z. Field Sanitation and Malaria Control (on balcony)
- AA. Uniforms of the Armed Forces
- BB. Seven Ages of the Physician
- CC. Wartime Graduate Medical Meetings
- DD. American Bureau for Medical Aid to China
- EE. Medical Reprint Service



BELLEVUE-STRATFORD HOTEL—Plan of 18th Floor

### KEY TO EXHIBITS

#### Booth Number

1. Camel Cigarettes
2. Camel Cigarettes
3. Hanovia Chem. & Mfg. Co.
4. White Laboratories, Inc.
5. Ernst Bischoff Co.
6. Cameron Heartometer Co.
7. J. B. Lippincott Co.
8. Wallace & Tiernan Products, Inc.
9. C. B. Fleet Co.
10. Gilliland Laboratories, Inc.
11. Williams & Wilkins Co.
12. Kellogg Company
13. Sharpe & Dohme, Inc.
14. Sharpe & Dohme, Inc.
15. Sharpe & Dohme, Inc.
16. Sharpe & Dohme, Inc.
17. Sharpe & Dohme, Inc.
18. Picker X-Ray Corp.
19. Picker X-Ray Corp.
20. Picker X-Ray Corp.
21. Wm. S. Merrell Co.

#### Booth Number

22. Holland-Rantos Co.
23. Coho Chemical Corp.
24. E. & J. Mfg. Co.
25. Deput Mfg. Co.
26. S. M. A. Corporation
27. Philip Morris & Co., Ltd.
28. Parke, Davis & Co.
29. Winthrop Chemical Co.
30. Effervescent Products, Inc.
31. George F. Pilling & Son Co.
32. Lederle Laboratories, Inc.
33. S. H. Camp & Co.
34. Novocol Chem. Mfg. Co.
35. Hoffmann-La Roche, Inc.
36. Rare Chemicals, Inc.
37. J. R. Siebrandy Mfg. Co.
38. C. V. Mosby Co.
39. American Safety Razor Corp.
40. Merck & Co., Inc.
41. Merck & Co., Inc.
42. Clay-Adams Co.
43. American Hospital Sup. Corp.

#### Booth Number

44. Burroughs Wellcome & Co.
45. Cambridge Instrument Co.
46. Crescent Surgical Sales Co.
47. Smith, Kline & French Labs.
48. Mead Johnson & Co.
49. Schering & Glatz
50. The Foregger Co.
51. John Wyeth & Brother, Inc.
52. National Drug Co.
53. Bard-Parker Co.
54. Austenal Laboratories, Inc.
55. Riedel-de Haen, Inc.
56. Bilhuber-Knoll
57. Petrogalar Laboratories, Inc.
58. W. B. Saunders Co.
59. The Macmillan Co.
60. Singer Sewing Machine Co.
61. Singer Sewing Machine Co.
62. Singer Sewing Machine Co.
63. Medical Film Guild
64. Medical Film Guild



# NOTES

---

# NOTES

---

# NOTES

---



# NOTES

---

# INDEX

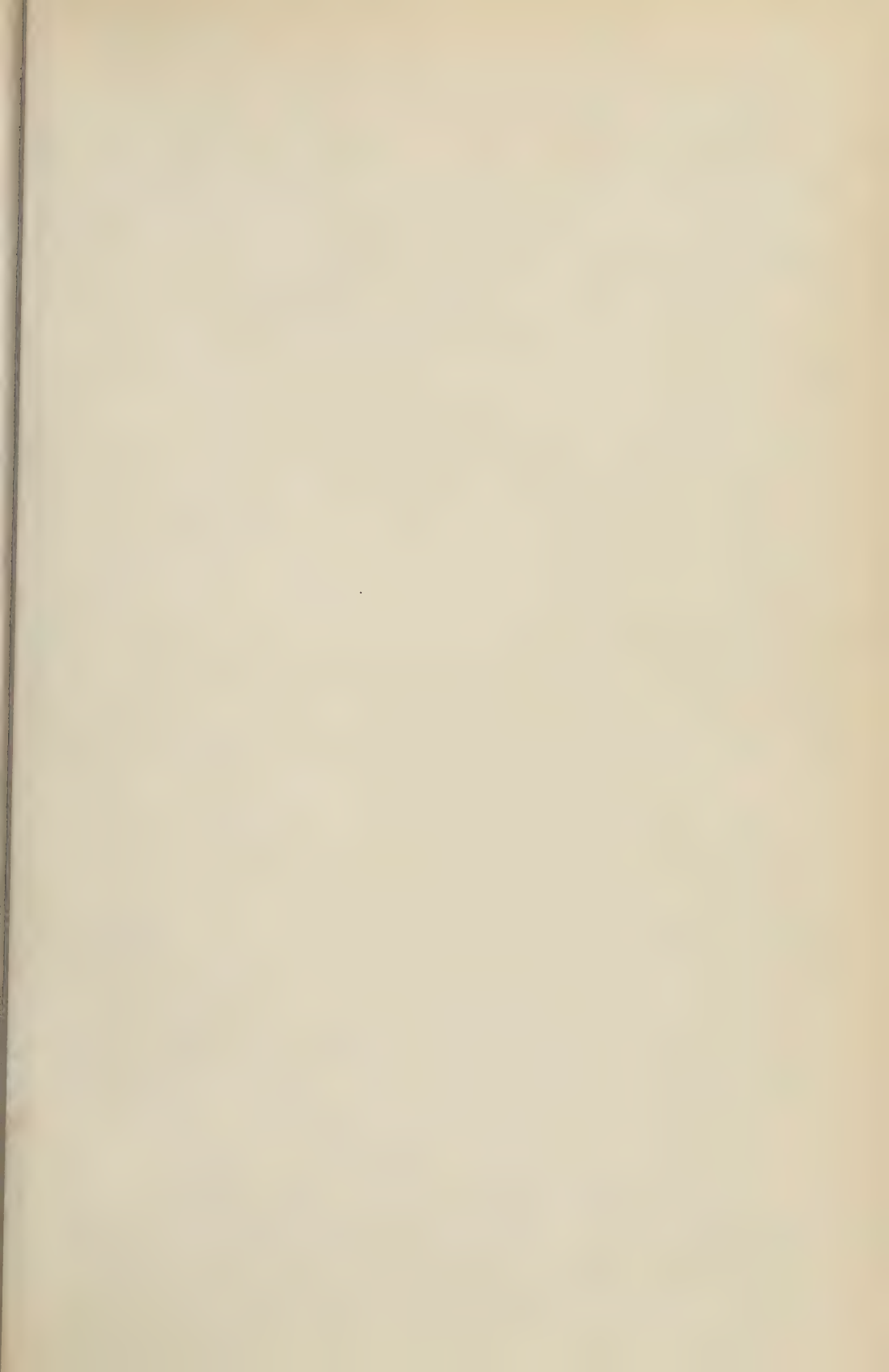
	PAGE
Greetings . . . . .	3
Officers of the Association . . . . .	8
Distinguished Guests . . . . .	9
Local Committees . . . . .	10
Condensed Official Schedule . . . . .	12
Forum Lectures . . . . .	14
Teaching Panels . . . . .	20
Motion Picture Schedule . . . . .	26
Radio Program . . . . .	29
Army Night . . . . .	31
Navy Night . . . . .	33
Charting New Seas . . . . .	34
Scientific Exhibits . . . . .	35
Medicine's Allies . . . . .	42
Technical Exhibits . . . . .	46
History of the Association . . . . .	50
Philadelphia and Military Medicine . . . . .	56
Historical Philadelphia . . . . .	62
Places You Will Want to See . . . . .	64
Acknowledgements . . . . .	66
General Information . . . . .	67
Map of Central Philadelphia . . . . .	72
Plan of Bellevue-Stratford (First Floor) . . . . .	74
Plan of Bellevue-Stratford Roof (18th Floor) . . . . .	75
Notes . . . . .	76

## PHOTOGRAPHIC CREDITS

Front Cover—U. S. NAVAL HOSPITAL  
 Page 2—INTERNATIONAL NEWS  
 Page 4—*bot. rt.* U. S. PUBLIC HEALTH SERVICE  
 Page 6—*top* FABIAN BACHRACH  
 Page 7—*top* RICHARD T. DOONER  
 Page 16—SIGNAL CORPS  
 Page 19—*top* U. S. NAVY; *bot.* RALPH MORSE,  
     *courtesy Life Magazine*  
 Page 25—ARMY AIR FORCE  
 Page 30—WILLIAM C. SHROUT, *courtesy Life*  
     *Magazine*  
 Page 31—PRESS ASSOCIATION  
 Page 32—H. ARMSTRONG ROBERTS  
 Page 33—U. S. NAVY  
 Page 35—D. SARGENT BELL  
 Page 36—D. E. AHLERS  
 Page 42—SIGNAL CORPS, *ex. bot.* U. S. NAVY  
 Page 43—*top* U. S. MARINE CORPS; *cen.* SIGNAL  
     CORPS; *bot.* U. S. NAVY  
 Page 44—SIGNAL CORPS; *ex. bot.* U. S. MARINE  
     CORPS

Page 45—*top* SIGNAL CORPS; *bot.* U. S. NAVY  
 Pages 56 through 61—P. W. WALLACE, *courtesy*  
     Historical Society of Pennsylvania  
 Page 62—*top* HAROLD M. LAMBERT; *bot.* W. M.  
     RITTASE  
 Page 63—W. M. RITTASE  
 Page 64—W. M. RITTASE  
 Page 65—*top* W. M. RITTASE; *bot. rt.* PHOTO-  
     ILLUSTRATORS  
 Page 71—SIGNAL CORPS; *ex. bot.* U. S. NAVY  
 Pages 72, 73—*courtesy* PHILADELPHIA TRANS-  
     PORTATION COMPANY  
 Inside Back Cover—*top lt.* U. S. MARINE  
     CORPS; *top cen.* INTERNATIONAL NEWS; *rt. cen.*  
     ARMY AIR FORCE; *bot. lt.* U. S. NAVY; *bot. rt.*  
     U. S. NAVAL HOSPITAL; *circle cen.* U. S. NAVY  
 Back Cover—HAROLD M. LAMBERT

Abbreviations: *bot.*, bottom; *cen.*, center; *lt.*,  
 left; *rt.*, right; *ex.*, except









Above: Valley Forge General Hospital



Below: U.S. Naval Hospital, Philadelphia



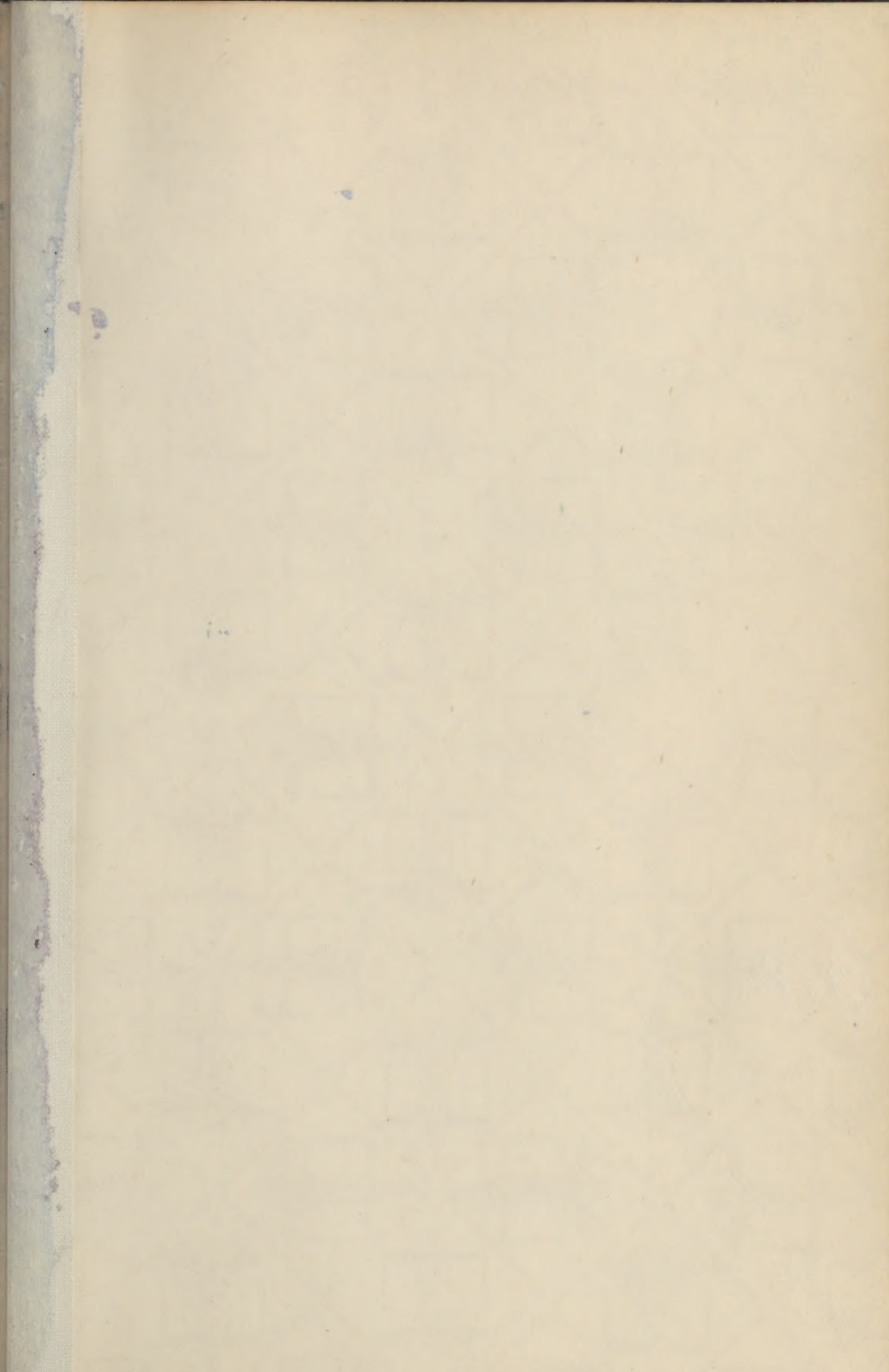


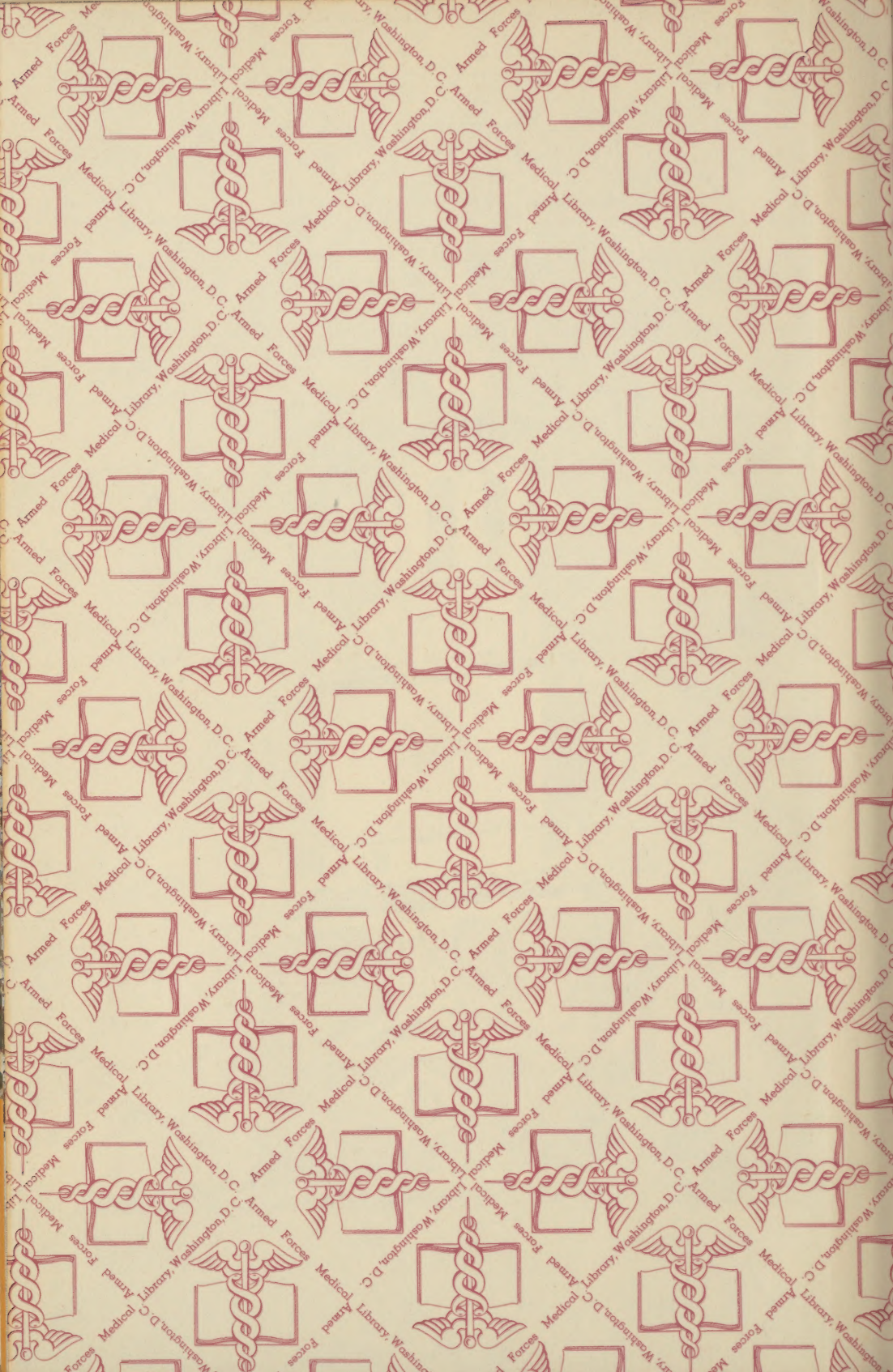


God who gave us life gave us liberty...

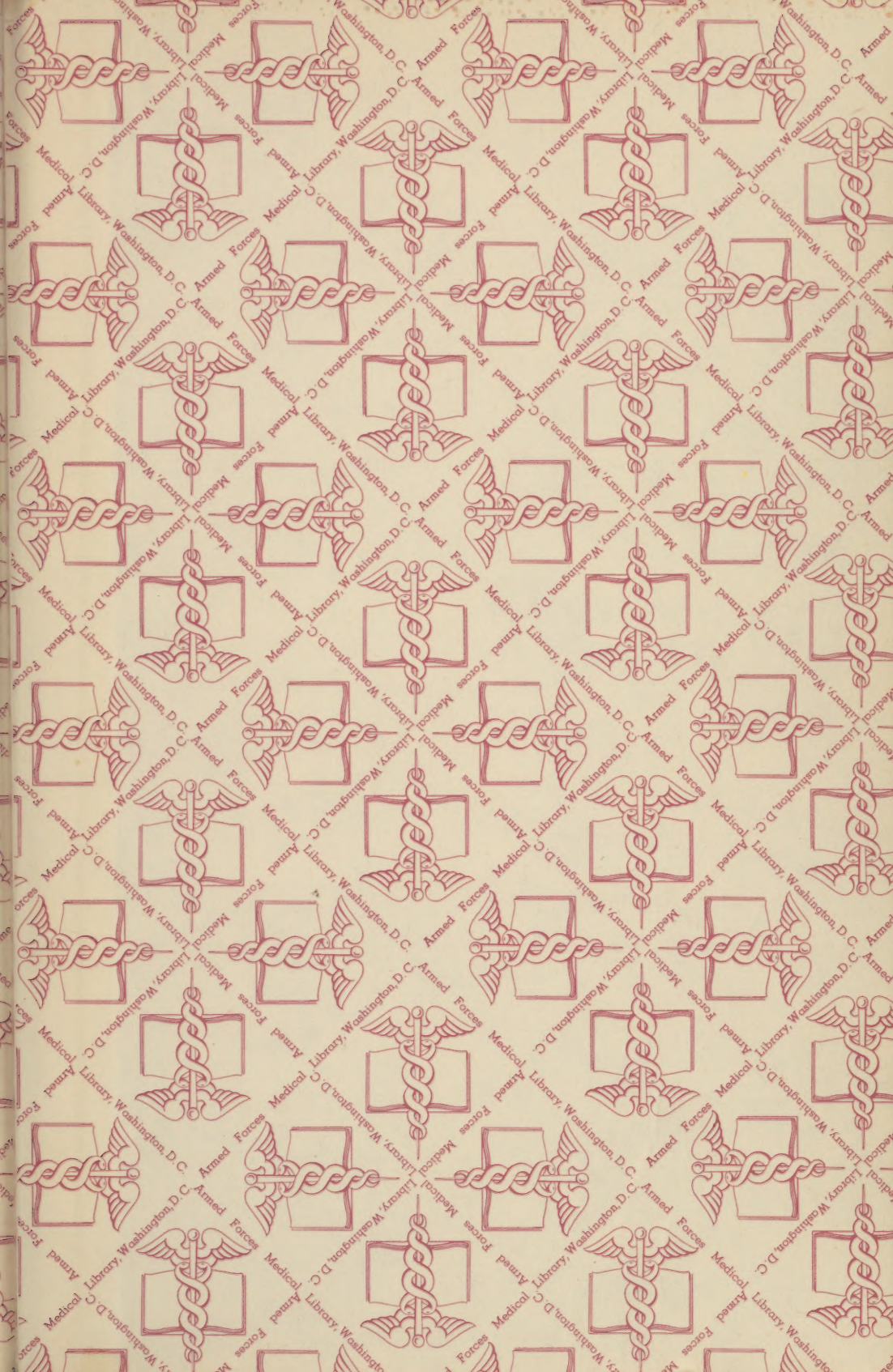
*Th. Jefferson*













W0 1 A849s 1943

45920880R



NLM 05234893 0

NATIONAL LIBRARY OF MEDICINE